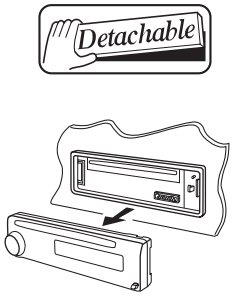
JVC

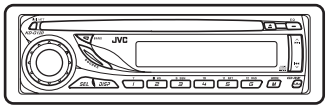
SERVICE MANUAL

CD RECEIVER

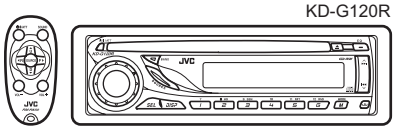
KD-G120,KD-G120R,KD-G123, KD-G124,KD-G125,KD-G126, KD-G161,KD-G162



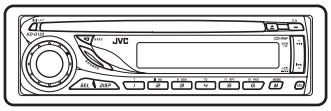
KD-G120



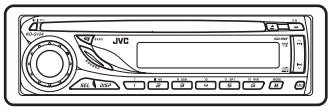
KD-G120R



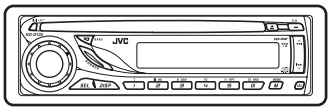
KD-G123



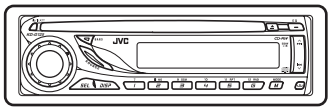
KD-G124



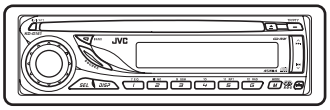
KD-G125



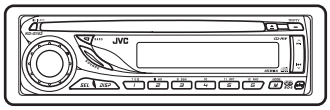
KD-G126



KD-G161



KD-G162



KD-G120,KD-G120R
Area suffix
J ---------- Northern America

KD-G123,KG-G124
Area suffix
UI ---------- India

KD-G125,KD-G126
Area suffix
UT ---------- Taiwan
UH ---------- Thailand
UN ---------- Indonesia
U ---------- Other Areas

KD-G161,KD-G162
Area suffix
E ---------- Southern Europe
EX ---------- Northern Europe
EY ---------- Eastern Europe
EU ---------- Turkey

CD-RW

COMPACT disc DIGITAL AUDIO TEXT

R·D·S

Amplifier Power Standard CEA CEA-2006 Compliant

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

TABLE OF CONTENTS

1 **PRECAUTIONS** **1-6**
2 **SPECIFIC SERVICE INSTRUCTIONS** **1-9**
3 **DISASSEMBLY** **1-10**
4 **ADJUSTMENT** **1-13**
5 **TROUBLESHOOTING** **1-14**

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No.MA233
2005/12

Safety precaution

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

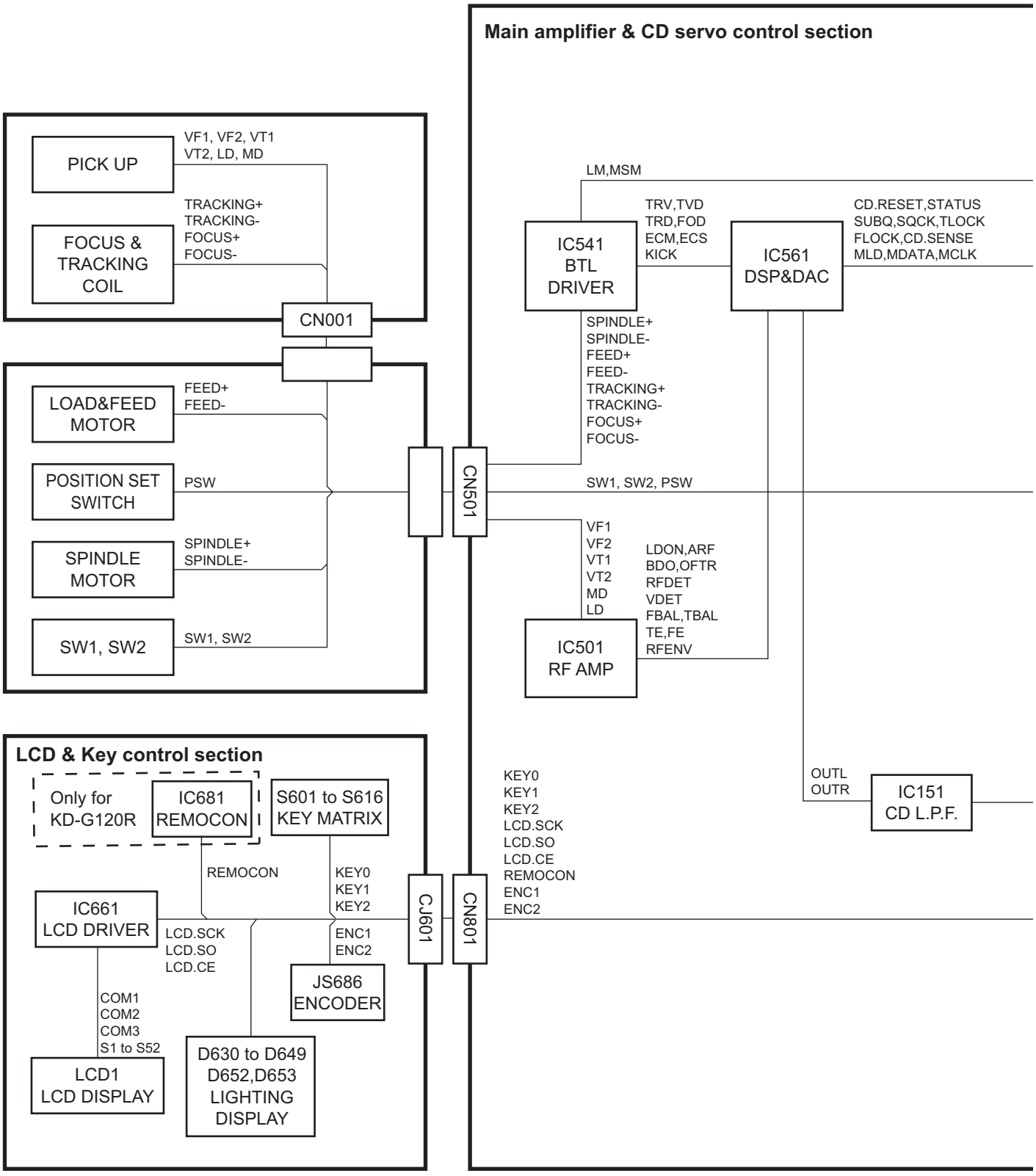
⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Difference point

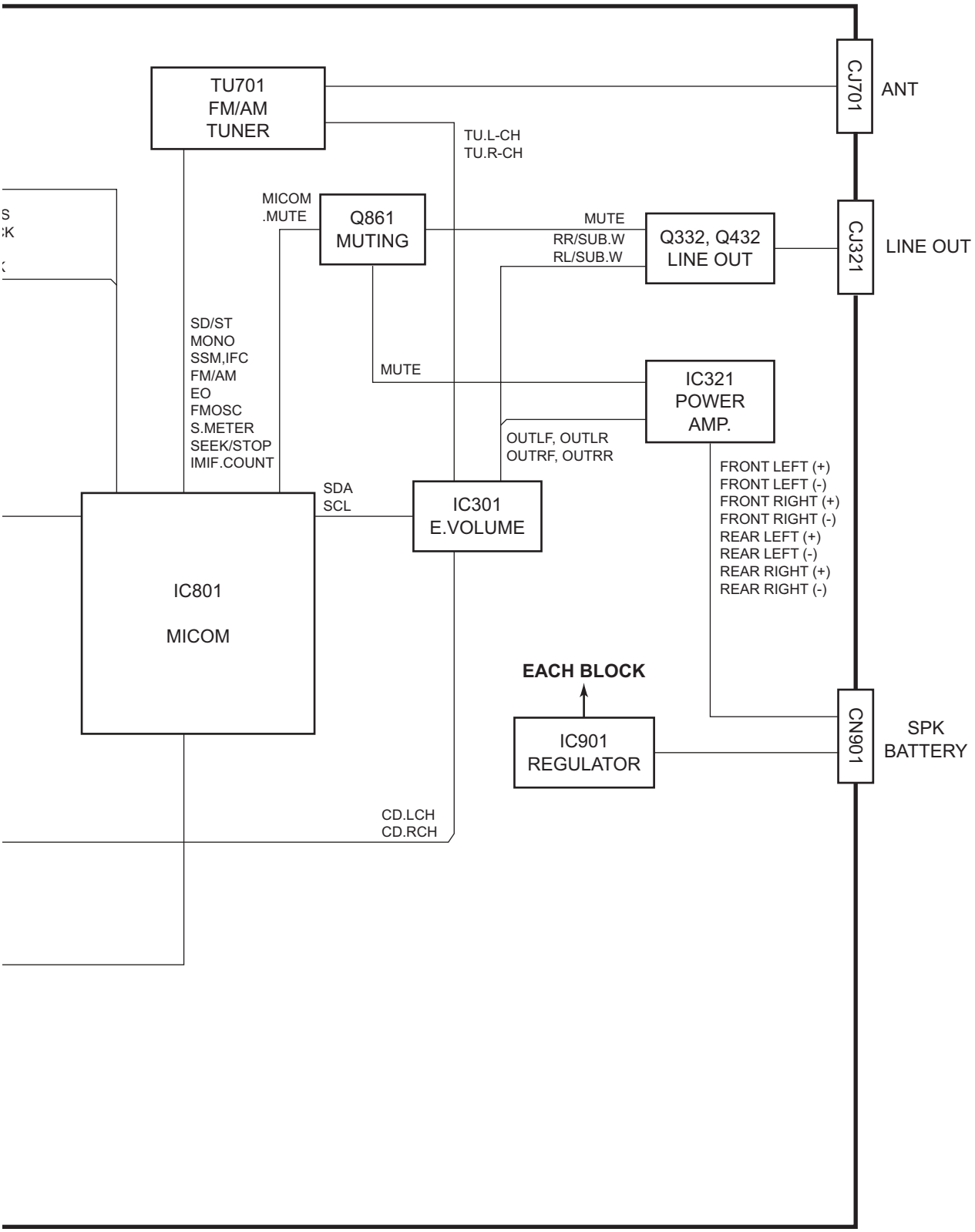
	KD-G120R	KD-G120,KD-G123,KD-G124,KD-G125,KD-G126	KD-G161,KD-G162
Remote controller	YES	NO	NO
Telephone Muting	NO	NO	YES

< MEMO >

Block diagram (For KD-G120,KD-G120R,KD-G123,KD-G124,KD-G125 and KD-G126)

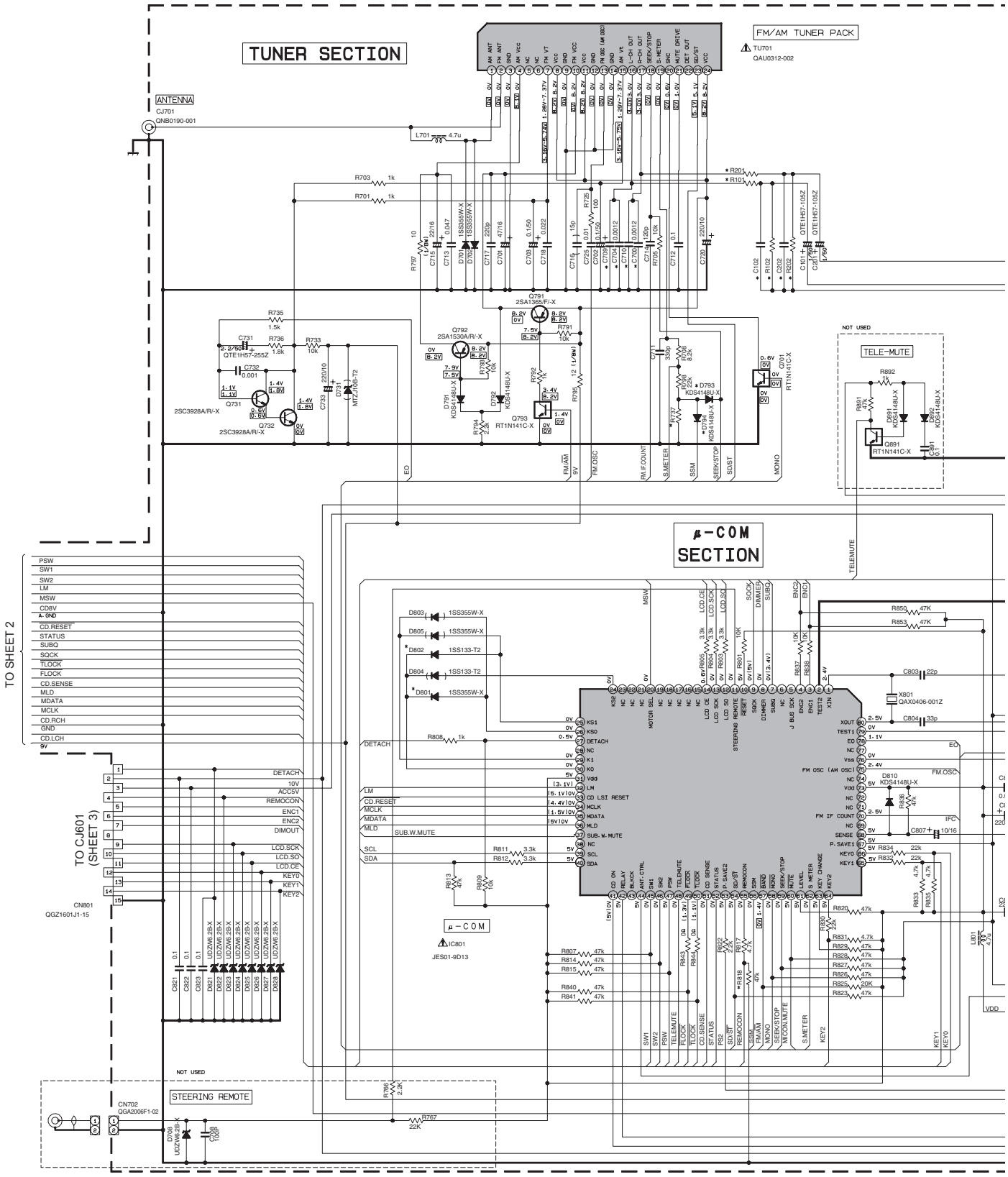


26)


TU701
FM/AM
TUNER
CJ701
ANT
TU.L-CH
TU.R-CH
MICOM
.MUTE
Q861
MUTING
MUTE
RR/SUB.W
RL/SUB.W
Q332, Q432
LINE OUT
CJ321
LINE OUT
SD/ST
MONO
SSM,IFC
FM/AM
EO
FMOSC
S.METER
SEEK/STOP
IMIF.COUNT
MUTE
IC321
POWER
AMP.
OUTLF, OUTLR
OUTRF, OUTRR
FRONT LEFT (+)
FRONT LEFT (-)
FRONT RIGHT (+)
FRONT RIGHT (-)
REAR LEFT (+)
REAR LEFT (-)
REAR RIGHT (+)
REAR RIGHT (-)
SDA
SCL
IC301
E.VOLUME
IC801
MICOM
EACH BLOCK
IC901
REGULATOR
CN901
SPK
BATTERY
CD.LCH
CD.RCH

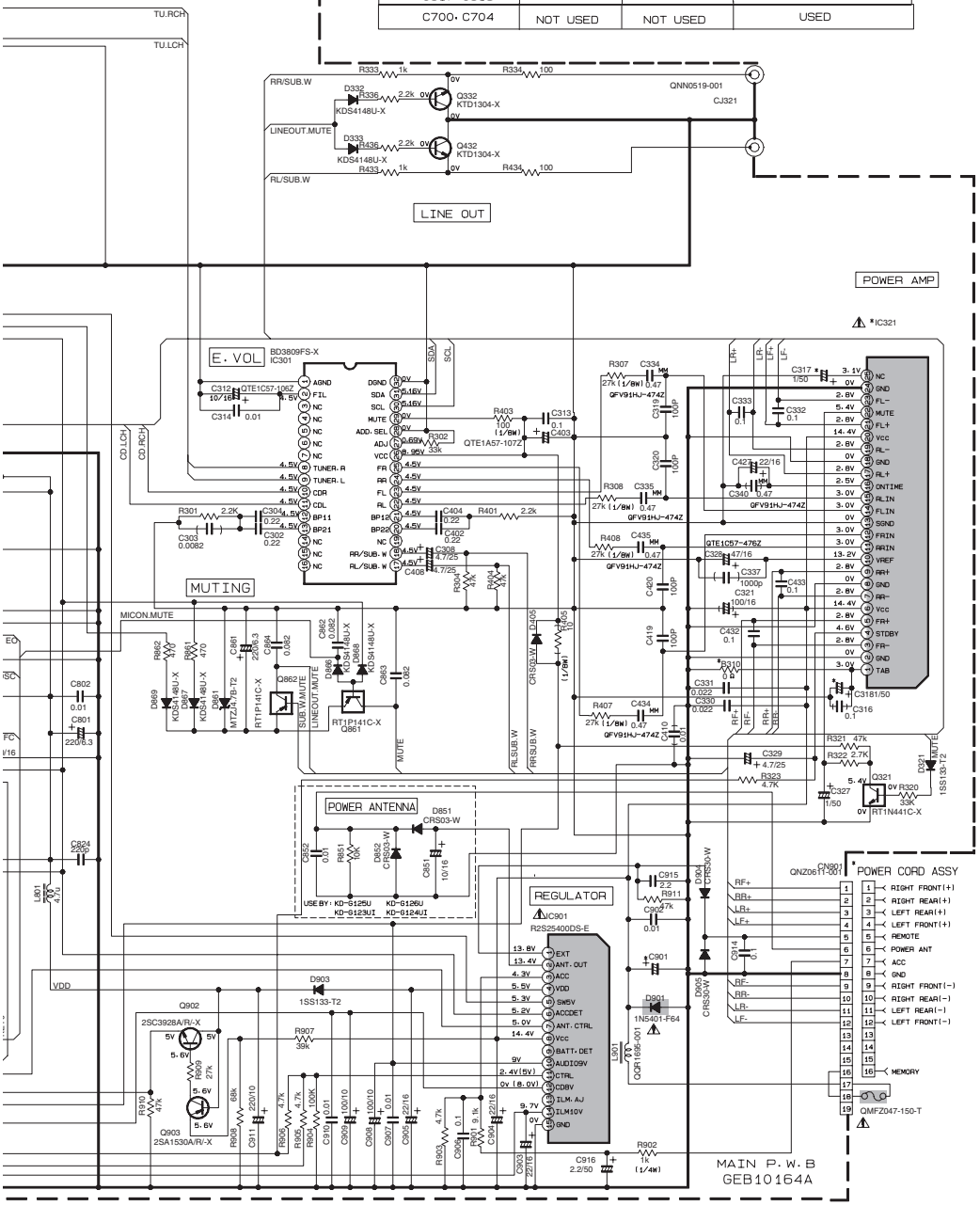
Standard schematic diagrams (For KD-G120, KD-G120R, KD-G123, KD-G124,

■ Main amplifier section



G124, KD-G125 and KD-G126)

MODEL	KD-G120J	KD-G120RJ	KD-G125U KD-G123UI	KD-G126U KD-G124UI
D801	USED	USED	NOT USED	
D802	NOT USED	NOT USED	USED	
C709, C710	0.015	0.015	0.012	
R101, R201	12k	12k	7.5k	
R102, R202	8.2K	8.2K	15K	
C102, C202	0.0039	0.0039	0.0022	
R737	0Ω	0Ω	100k	
D793, D794	NOT USED	NOT USED	USED	
R818	USED	NOT USED	USED	
POWER CORD ASSY	QAM0013-008	QAM0013-008	QAM0390-004	
IC321	LA4743K	LA4743K	LA47516	
C901	QEZ0645-228 2200UF/16V	QEZ0645-228 2200UF/16V	QEZ0769-278 2700UF/16V	
B310	USED	USED	NOT USED	
C317, C318	NOT USED	NOT USED	USED	
C700, C704	NOT USED	NOT USED	USED	

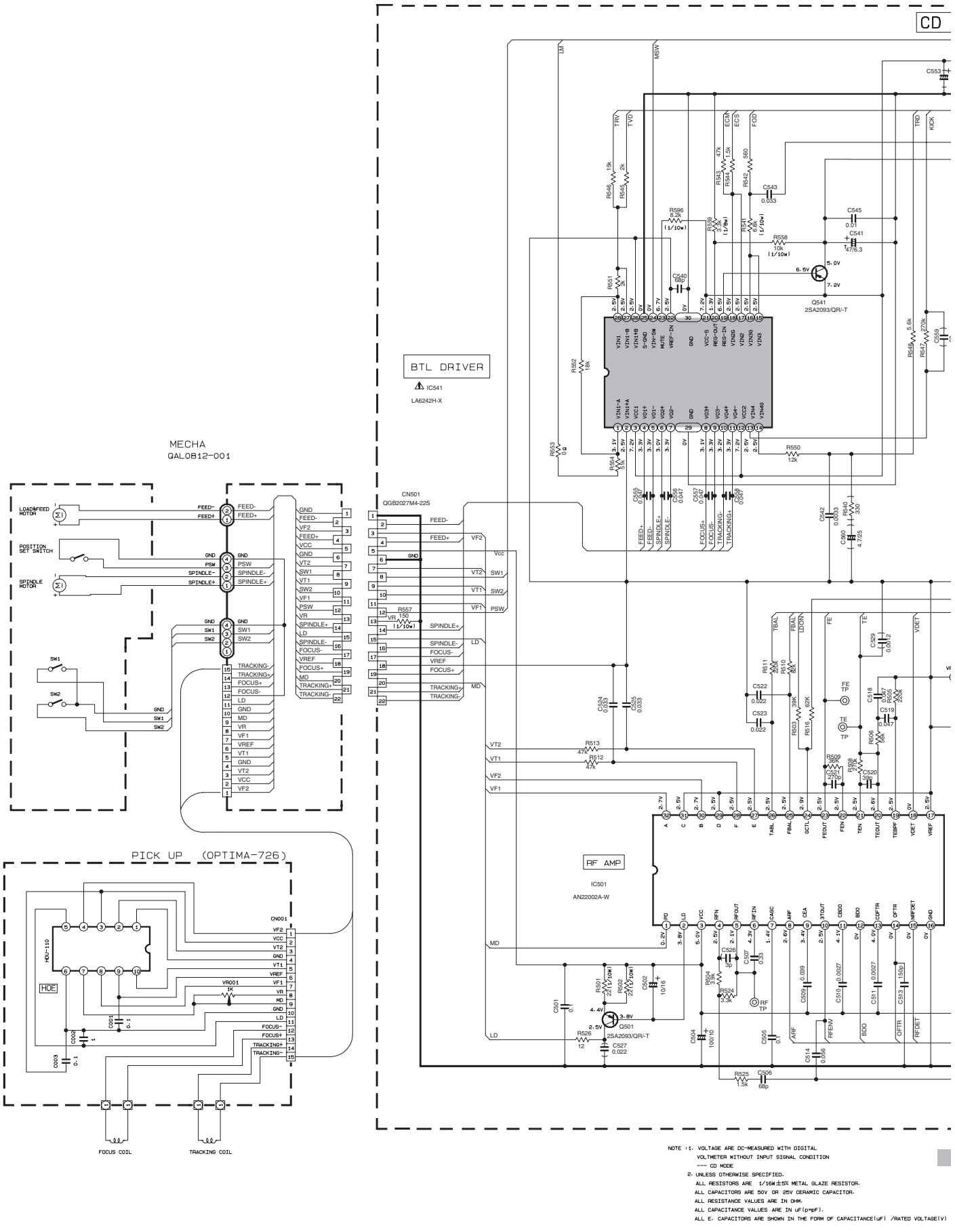


	R
RT1N141C-X	10K
RT1N441C-X	47K
RT1P141C-X	10K

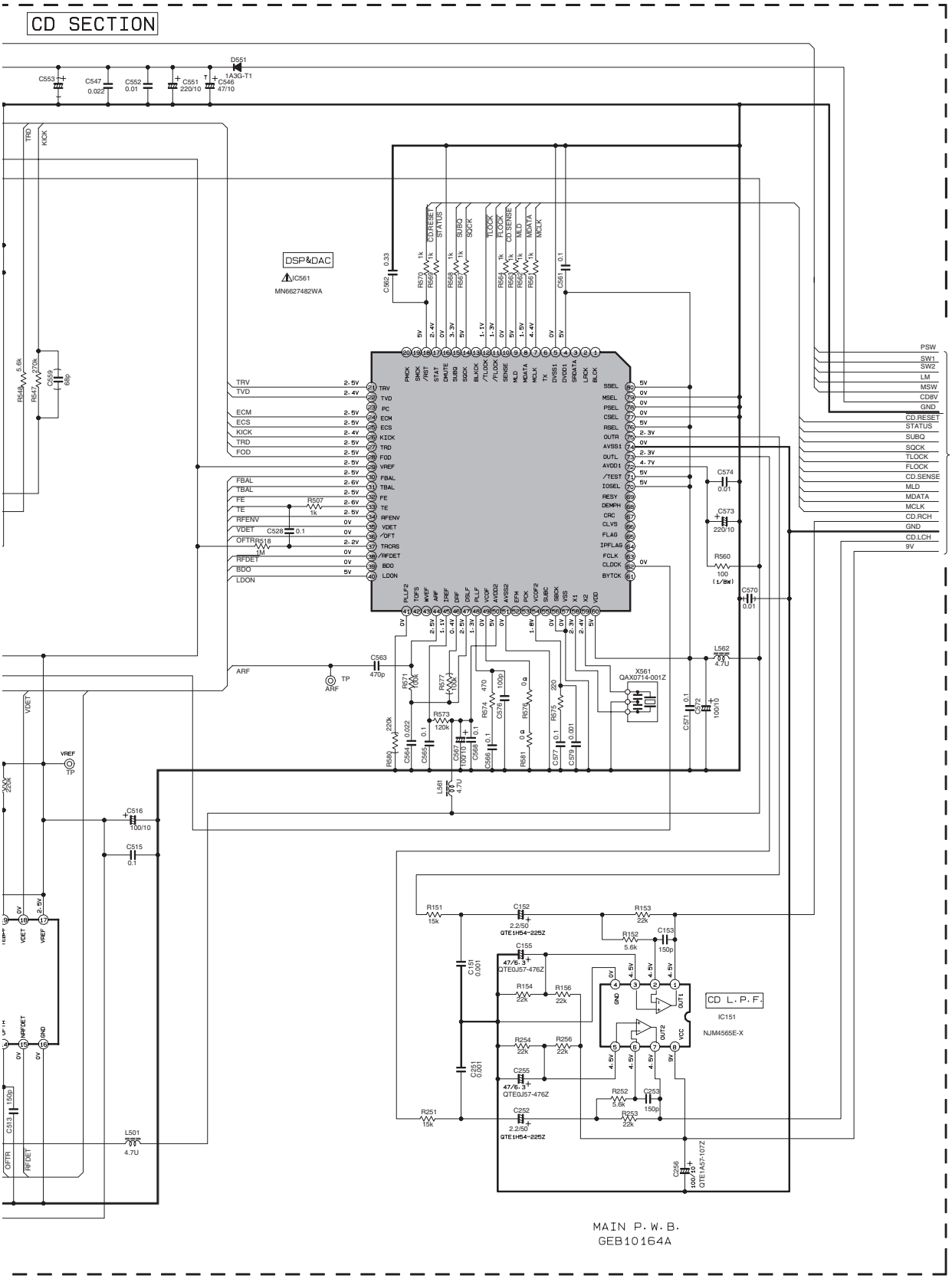
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

SHEET 1

■ CD servo control section



NOTE :1. VOLTAGE ARE DC-MEASURED WITH DIGITAL
VOLTMETER WITHOUT INPUT SIGNAL CONDITION
--- CD MODE
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF(p=pF).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF) /RATED VOLTAGE(V)

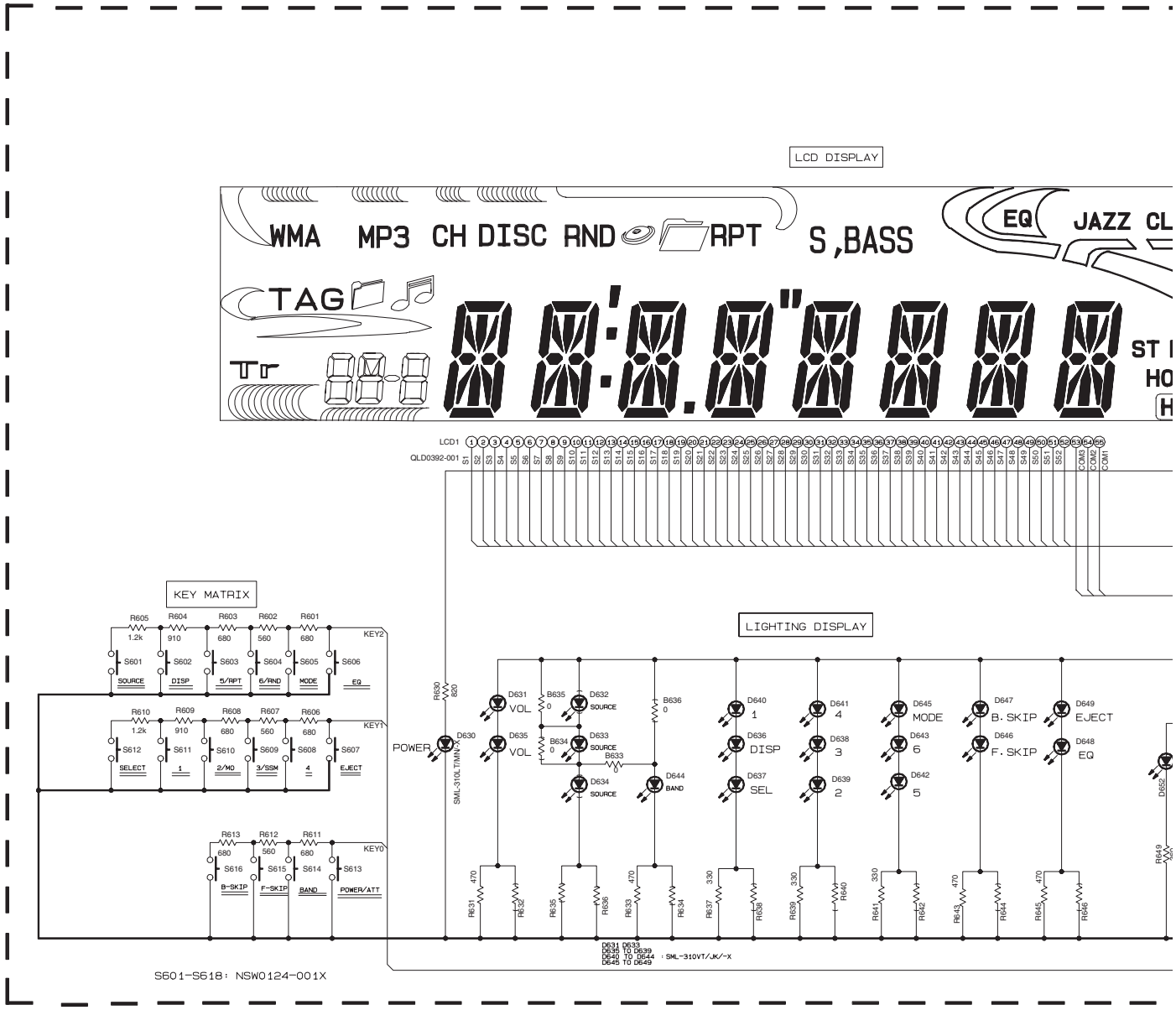


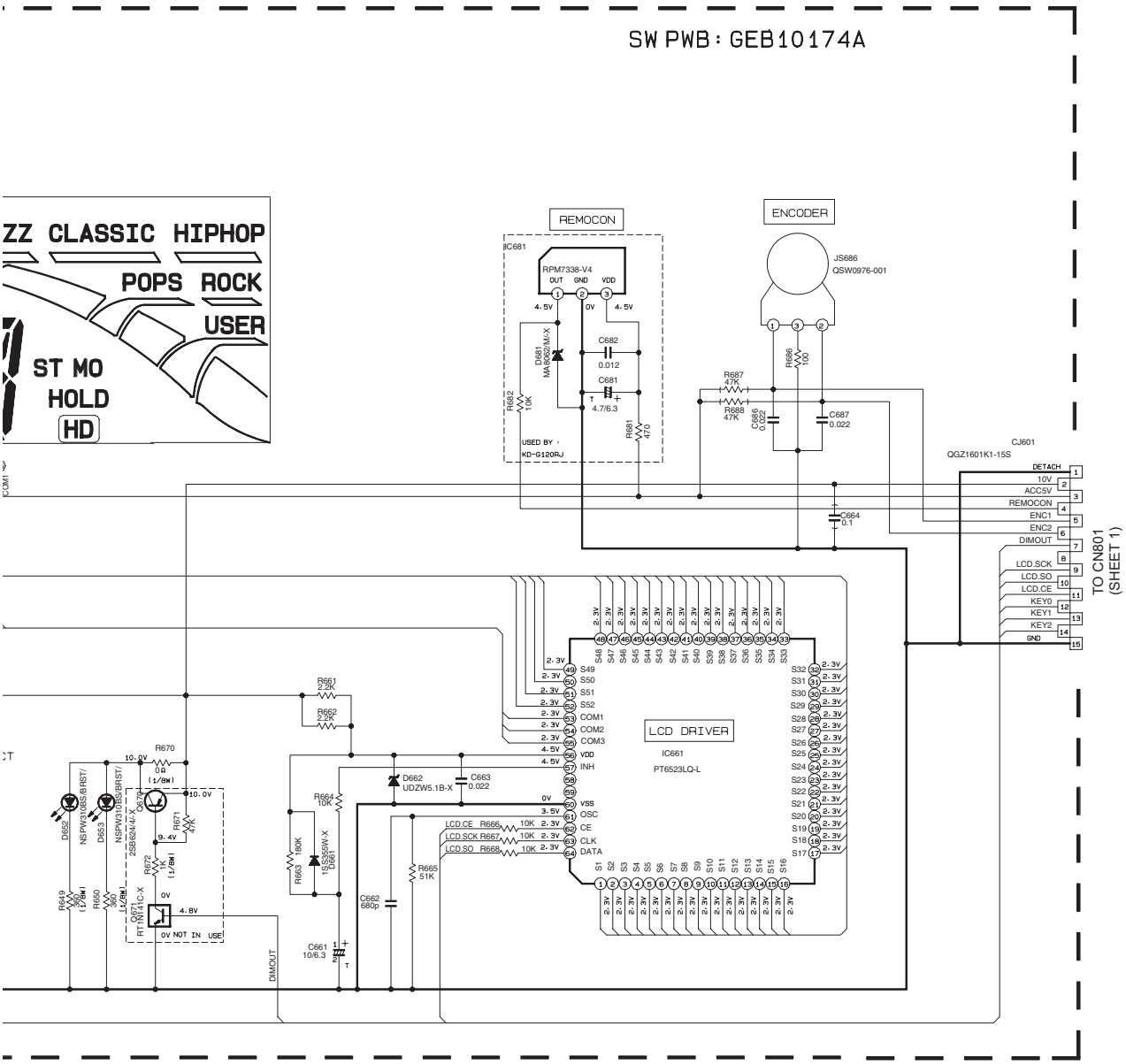
⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

RATED VOLTAGE(V)

SHEET 2

■ LCD & Key control section





	10K 10K	RT1N141C-X

NOTES

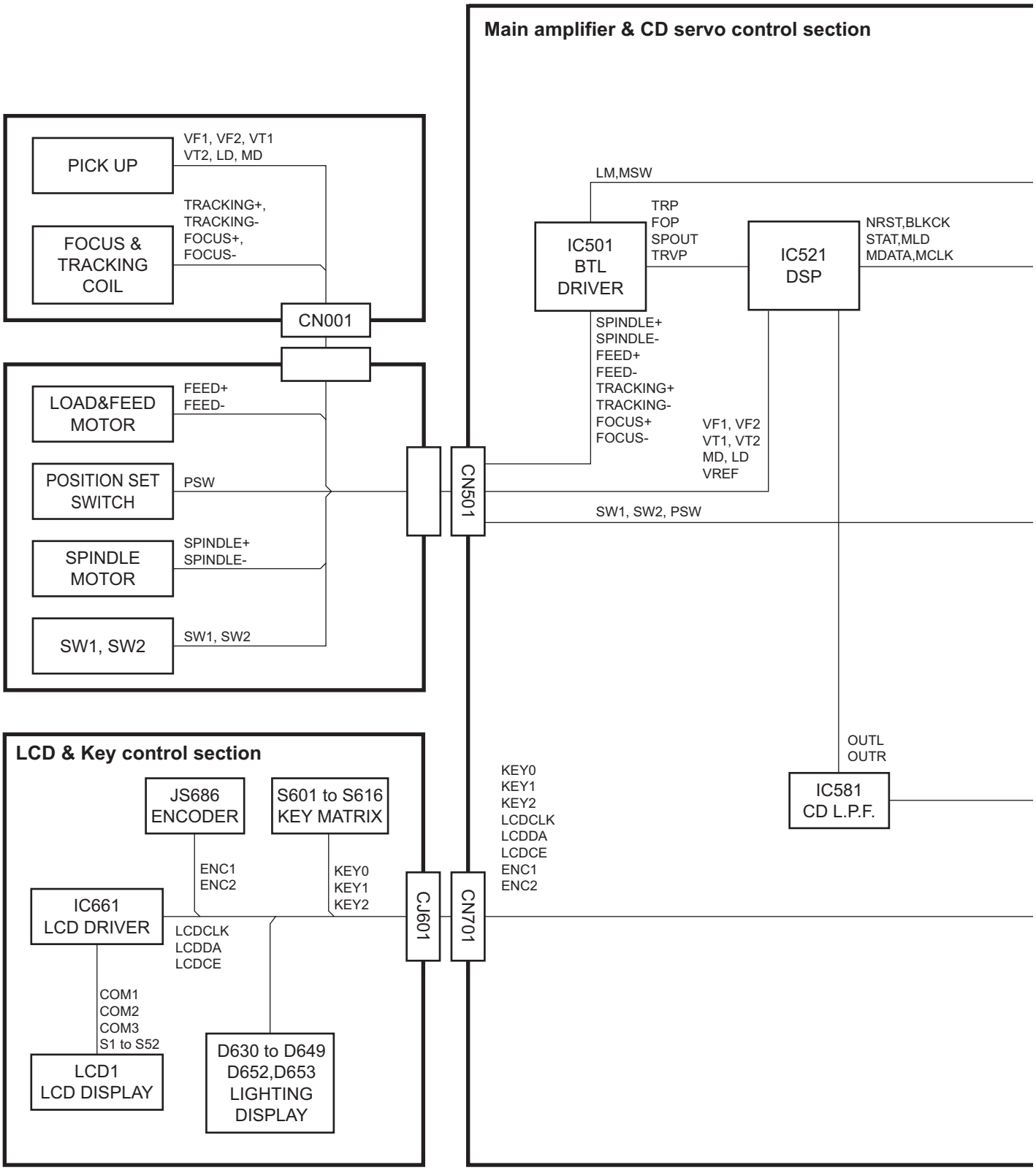
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

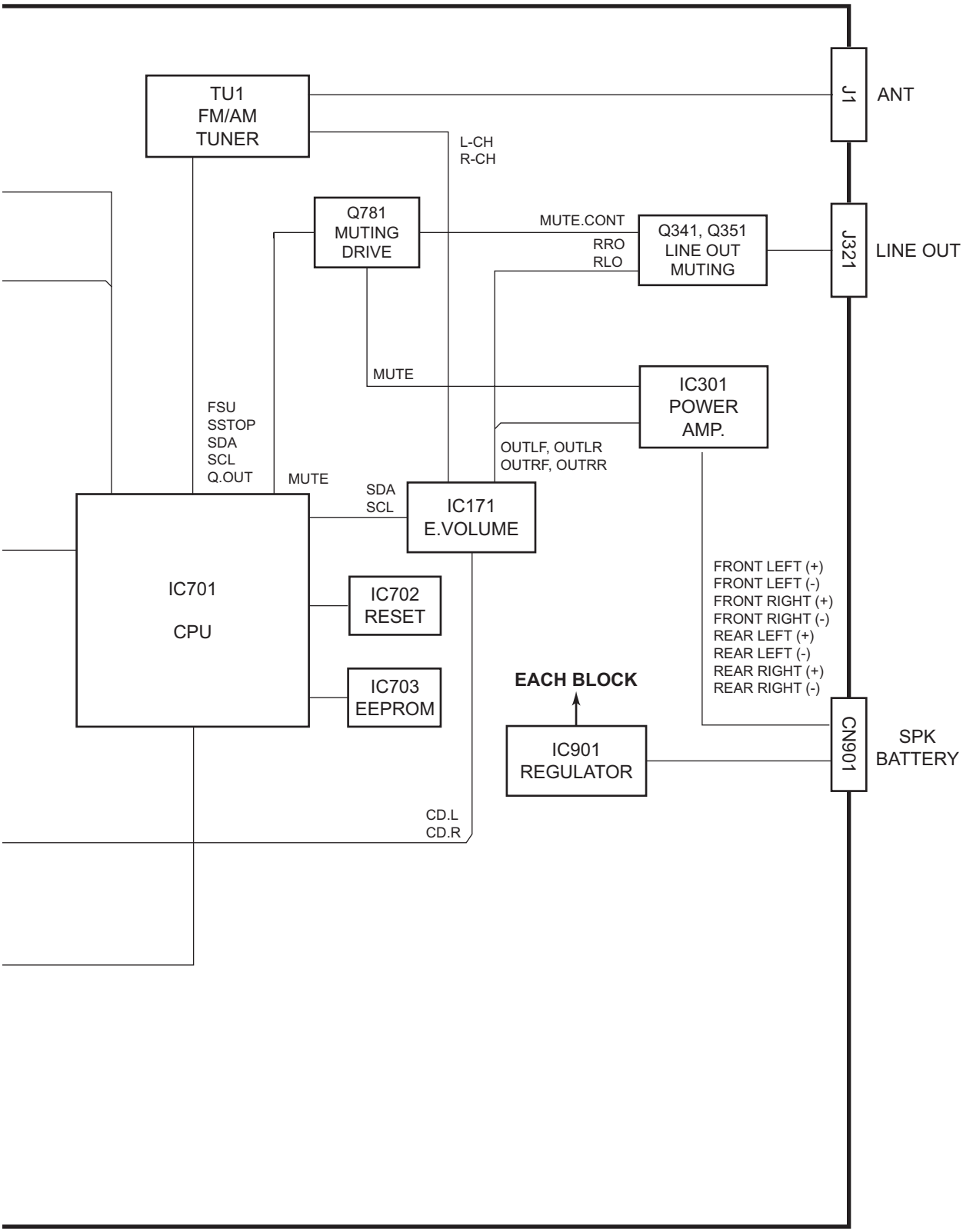
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTALUM CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.

SHEET 3

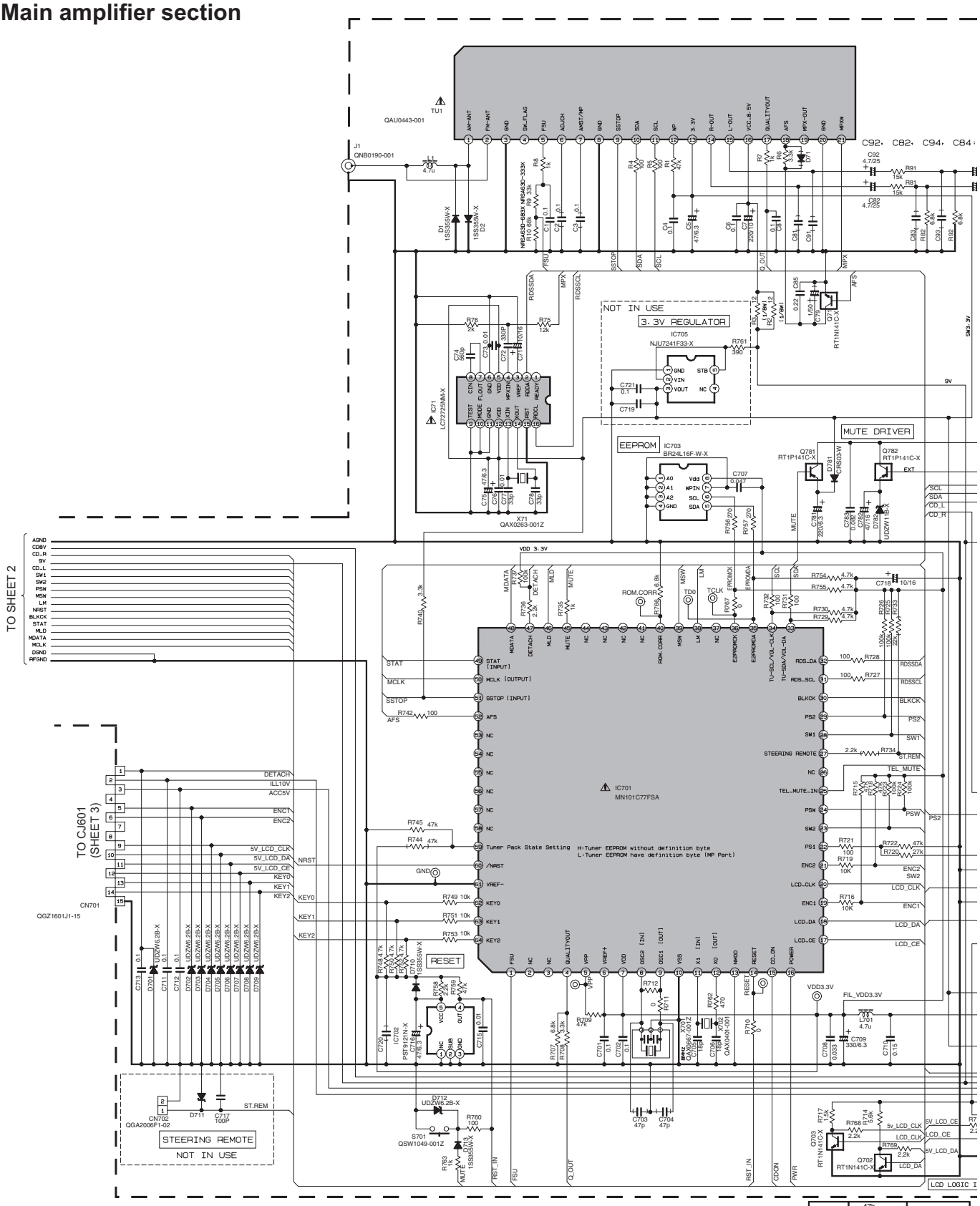
Block diagram (For KD-G161 and KD-G162)

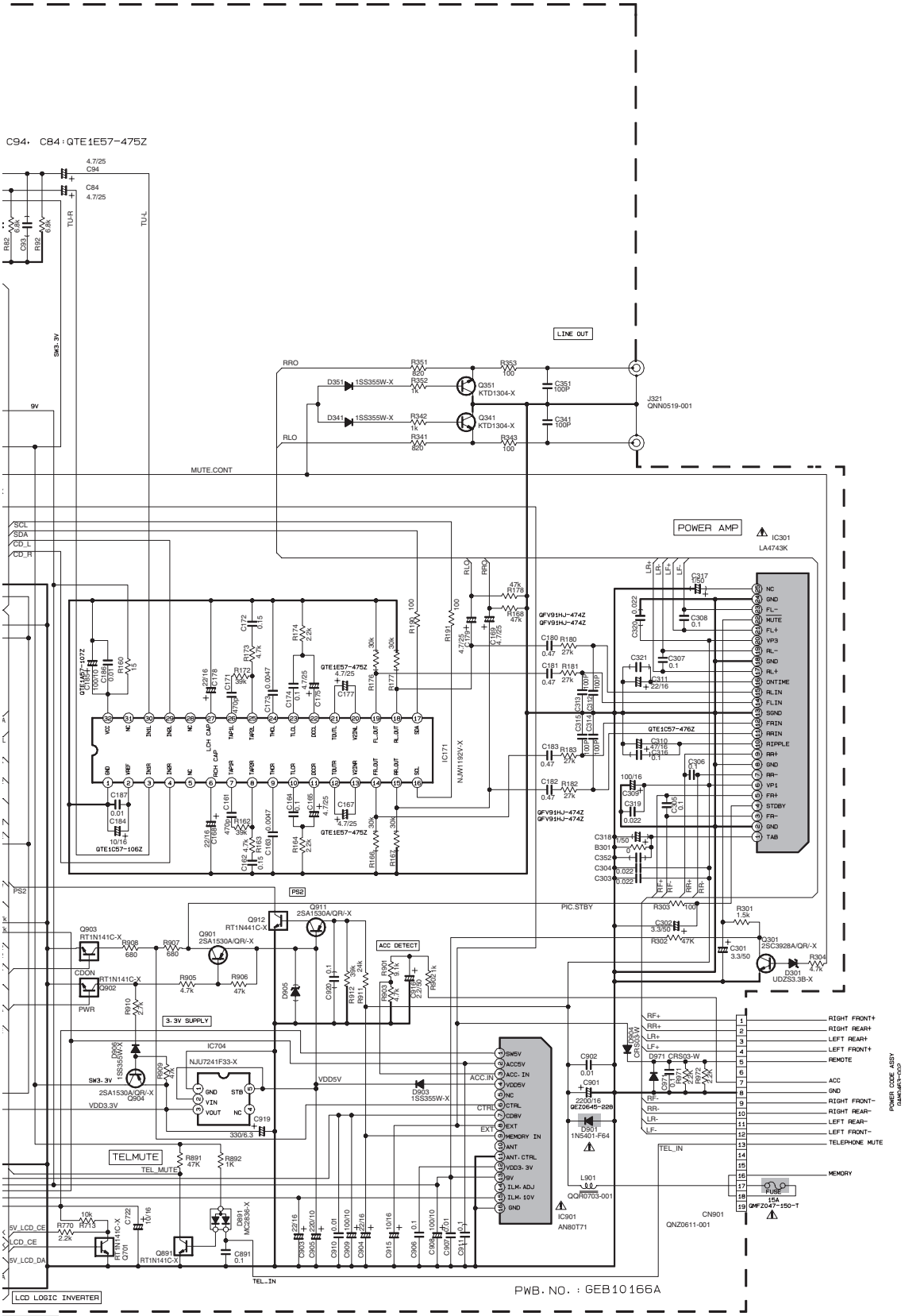



TU1
FM/AM
TUNER
J1
ANT
L-CH
R-CH
Q781
MUTING
DRIVE
MUTE.CONT
RRO
RLO
Q341, Q351
LINE OUT
MUTING
J321
LINE OUT
MUTE
IC301
POWER
AMP.
FSU
SSTOP
SDA
SCL
Q.OUT
MUTE
SDA
SCL
OUTLF, OUTLR
OUTRF, OUTRR
IC171
E.VOLUME
IC701
CPU
IC702
RESET
IC703
EEPROM
FRONT LEFT (+)
FRONT LEFT (-)
FRONT RIGHT (+)
FRONT RIGHT (-)
REAR LEFT (+)
REAR LEFT (-)
REAR RIGHT (+)
REAR RIGHT (-)
EACH BLOCK
IC901
REGULATOR
CN901
SPK
BATTERY
CD.L
CD.R

Standard schematic diagrams (For KD-G161 and KD-G162)

■ Main amplifier section





T1N441C-X

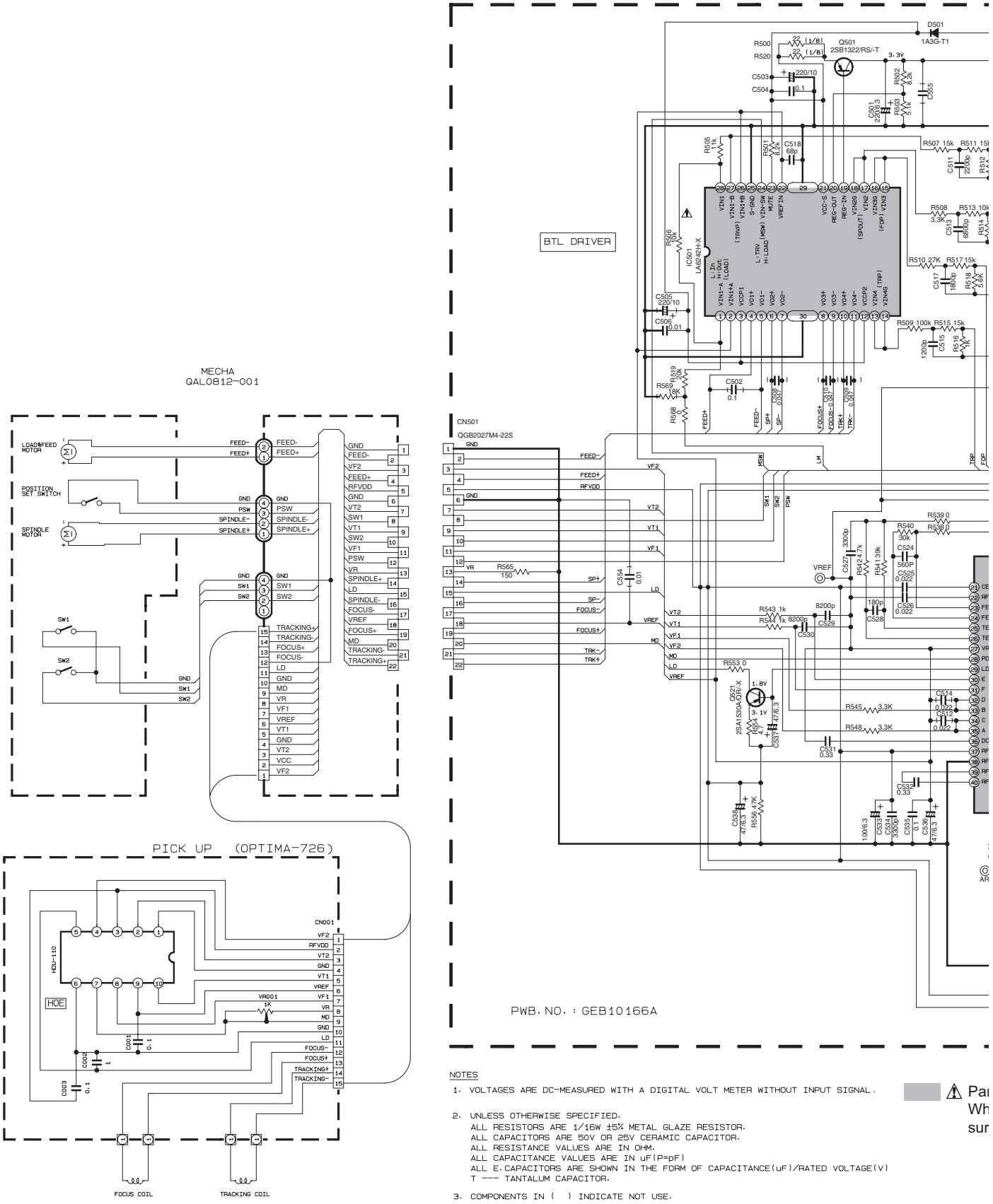
T1N141C-X

T1P141C-X

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

SHEET 1

■ CD servo control section



NOTES

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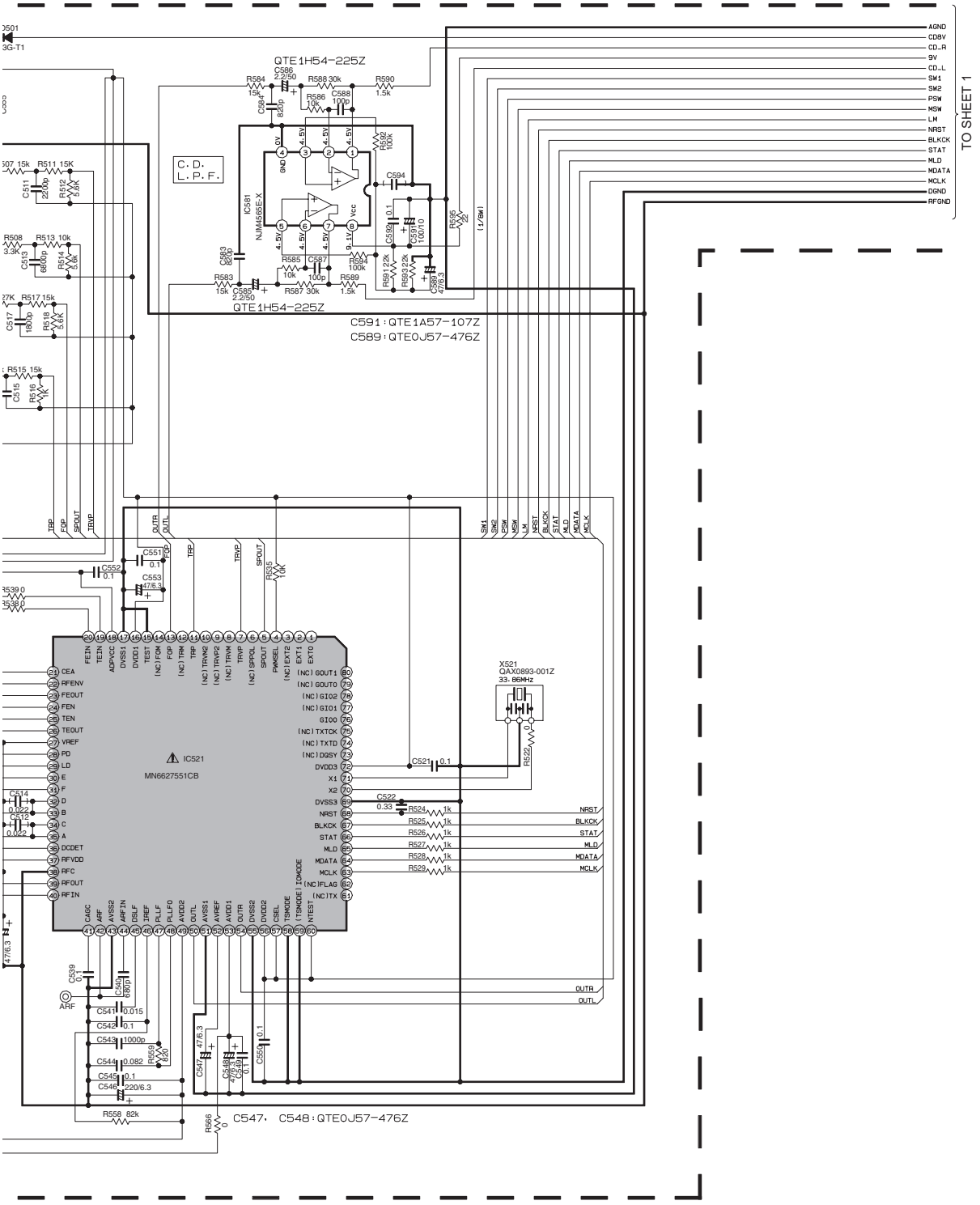
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTALUM CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.

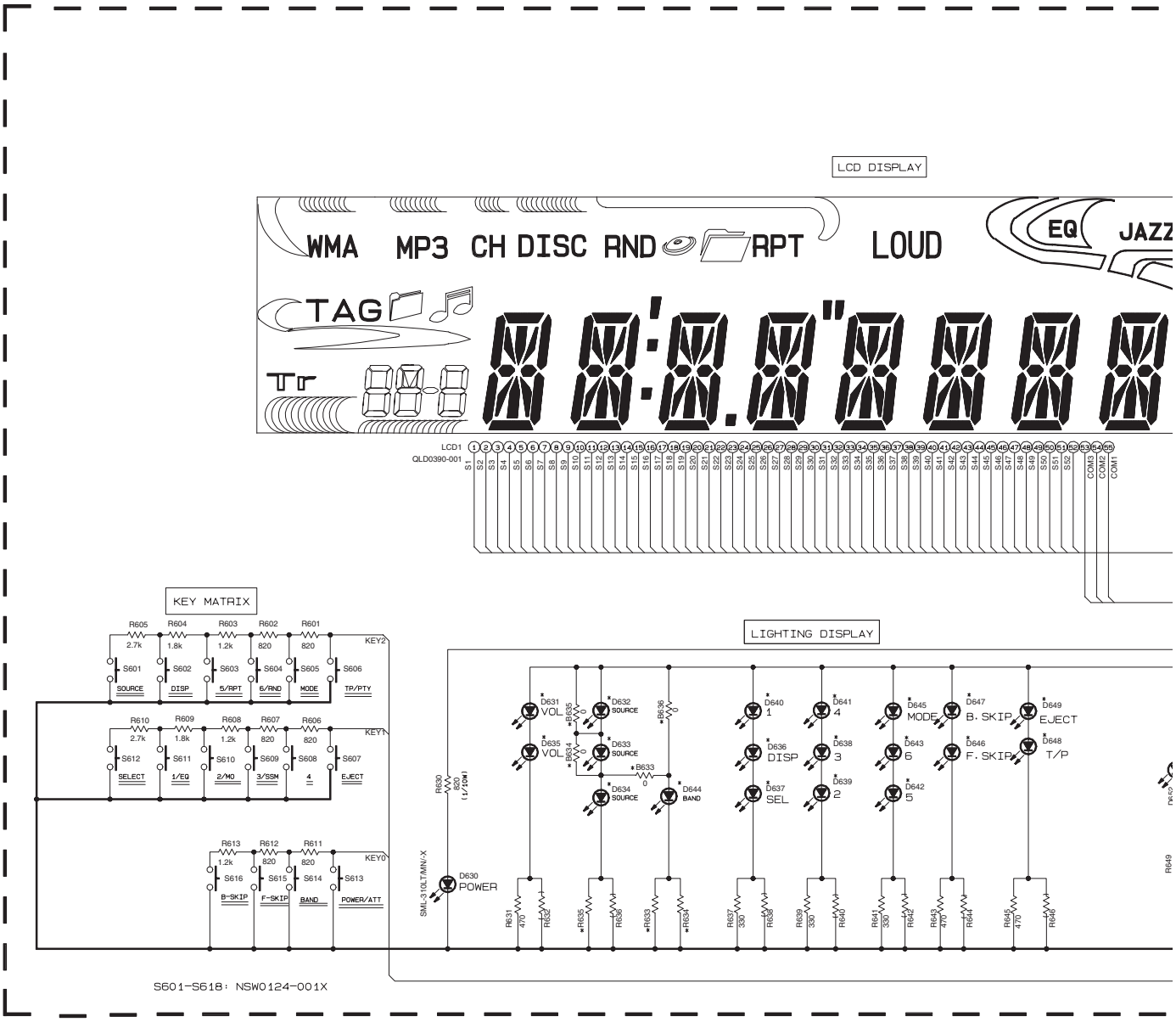
⚠ Par
Wh
sur



⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

SHEET 2

■ LCD & Key control section



REF. NAME	KD-G161E	KD-G162E
D632	LNJ308G81/1-3/X	NO USE
D633	NO USE	SML-310LT/MN/-X
D634	LNJ308G81/1-3/X	NO USE
D631, D635 D636 ~ D649	LNJ308G81/1-3/X	SML310VT/JK/-X
B633, B635	NO USE	USE
B634, B636	USE	NO USE
R633	1.2k	470
R634	1.5k	NO USE
R635	560	NO USE

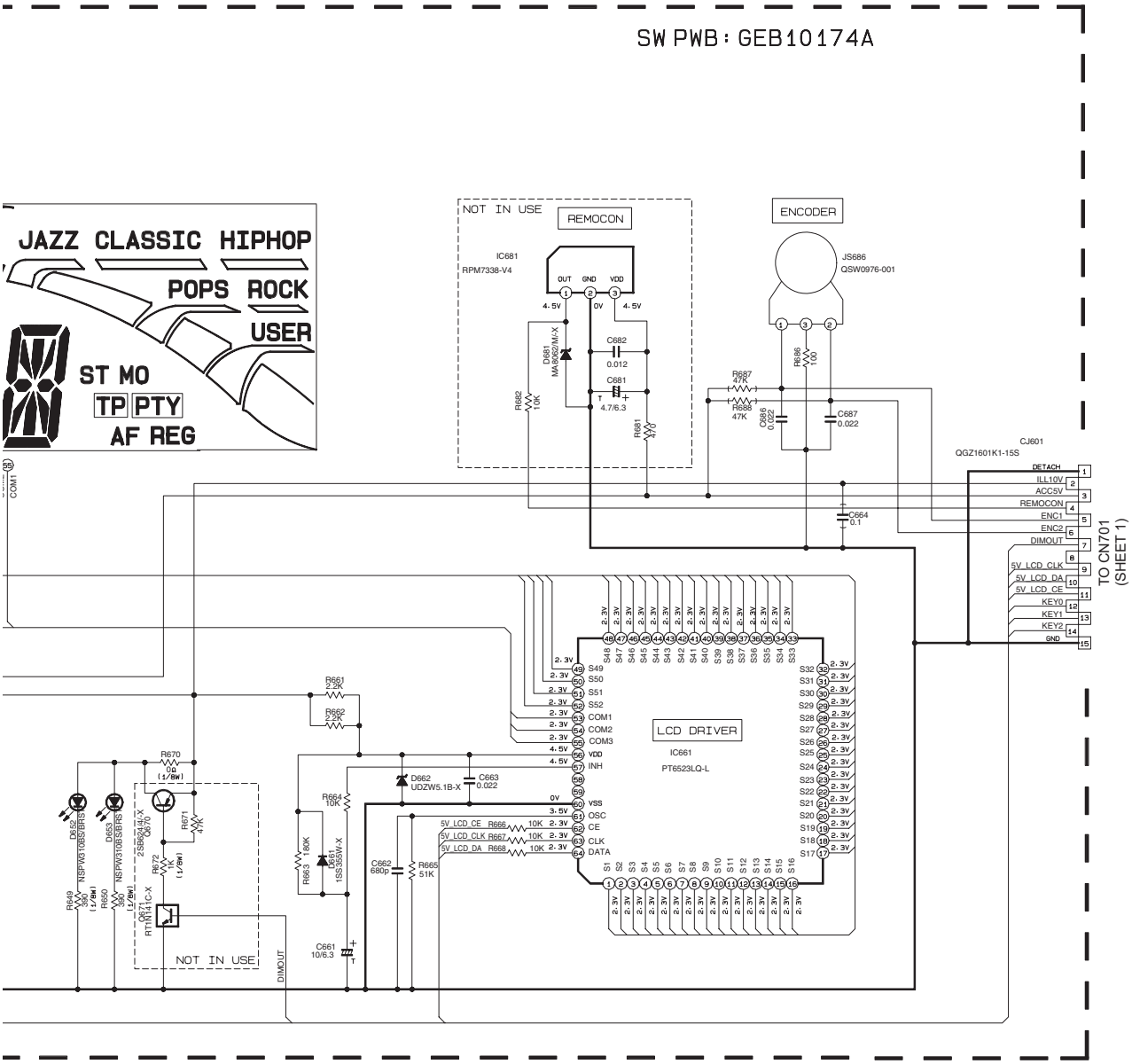
	10K / 10K	RT1N141C-X

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METE

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACIT
   T --- TANTALUM CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.



RTN141C-X

- VOLT METER WITHOUT INPUT SIGNAL.

E RESISTOR.
CAPACITOR.

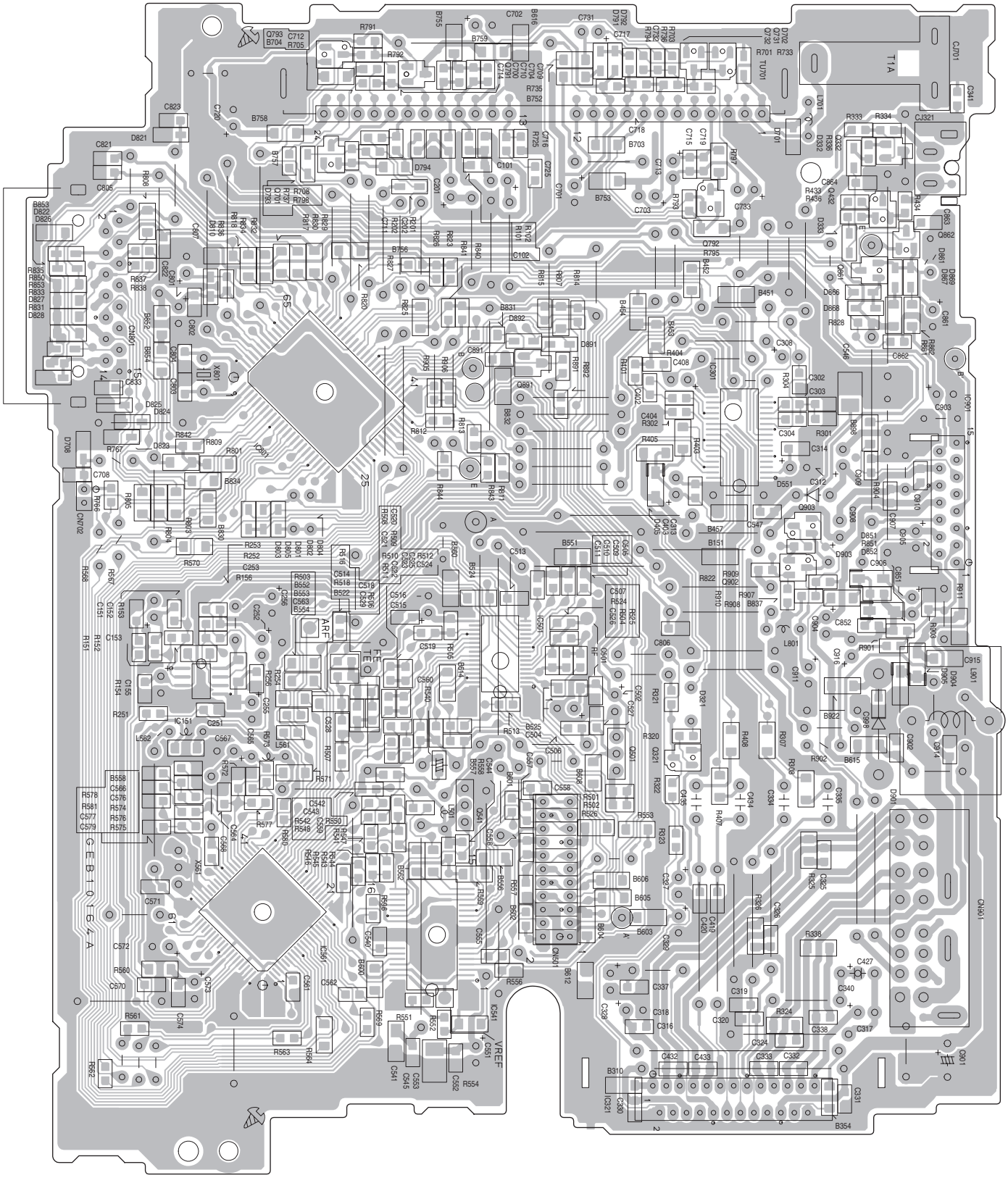
OF CAPACITANCE(uF)/RATED VOLTAGE(V)

SHEET 3

Printed circuit boards

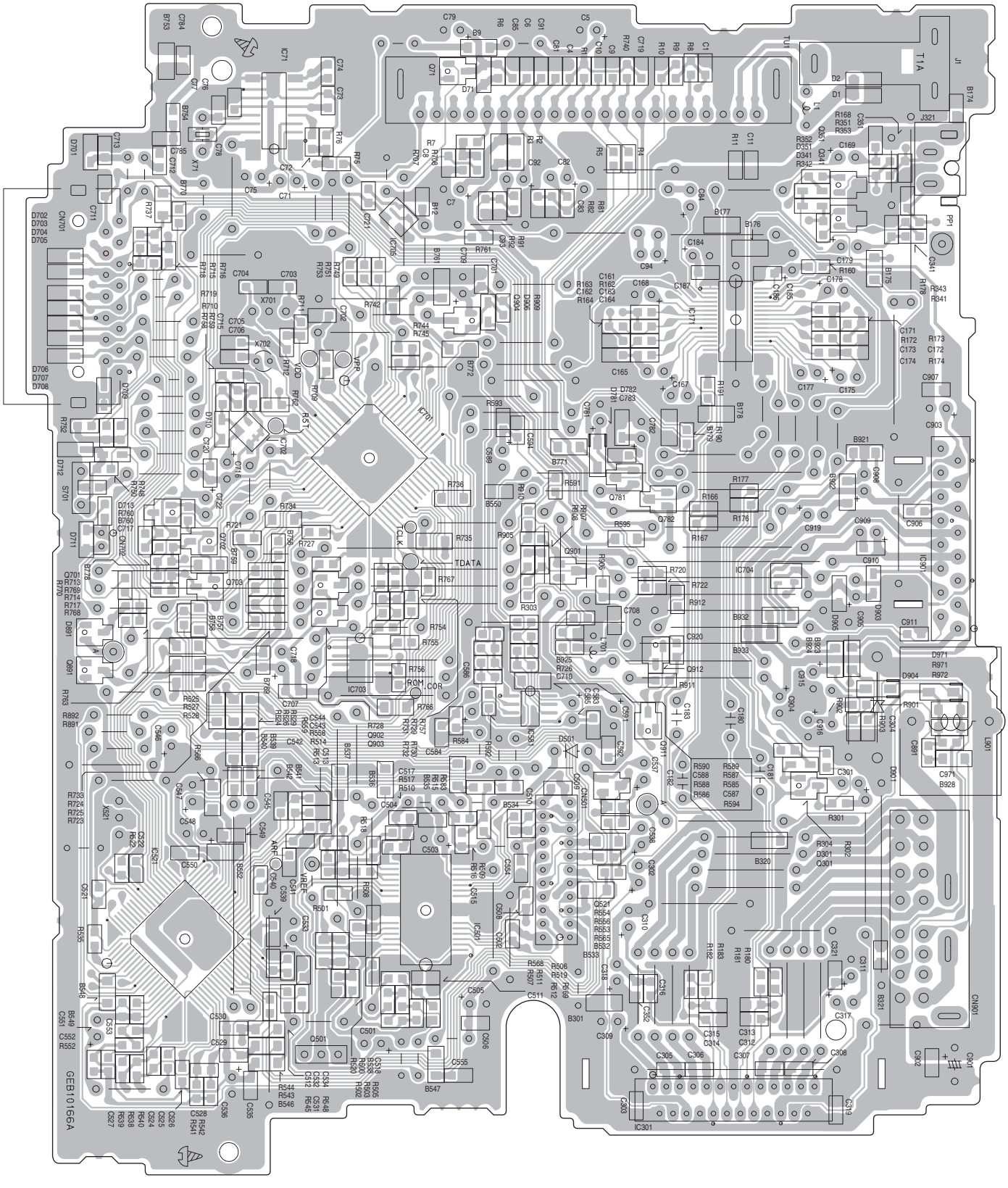
■ Main board (For KD-G120, KD-G120R, KD-G123, KD-G124, KD-G125 and KD-G126)

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



■ Main board (For KD-G161 and KD-G162)

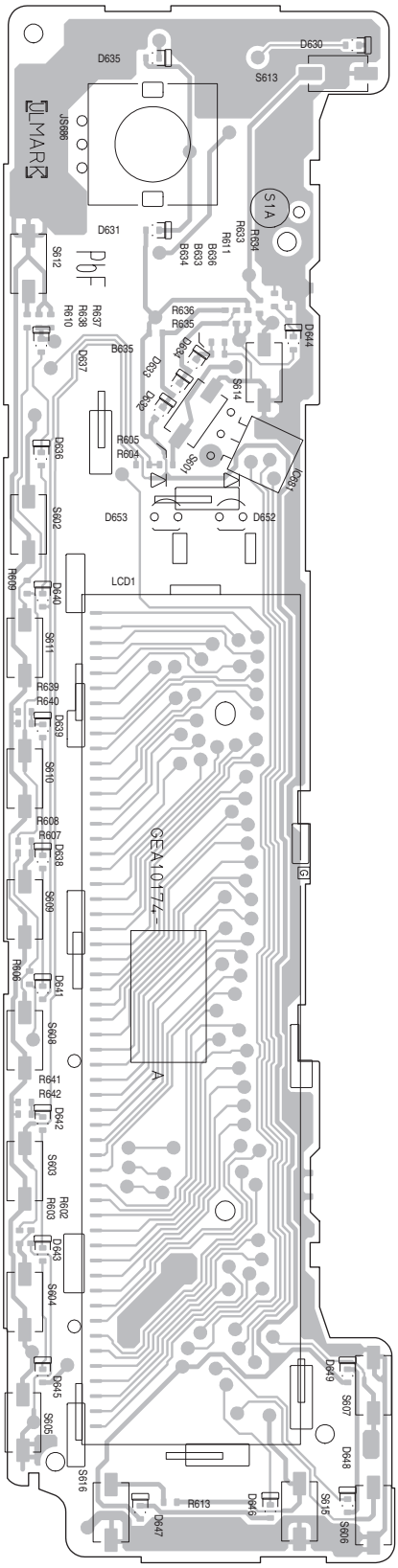
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



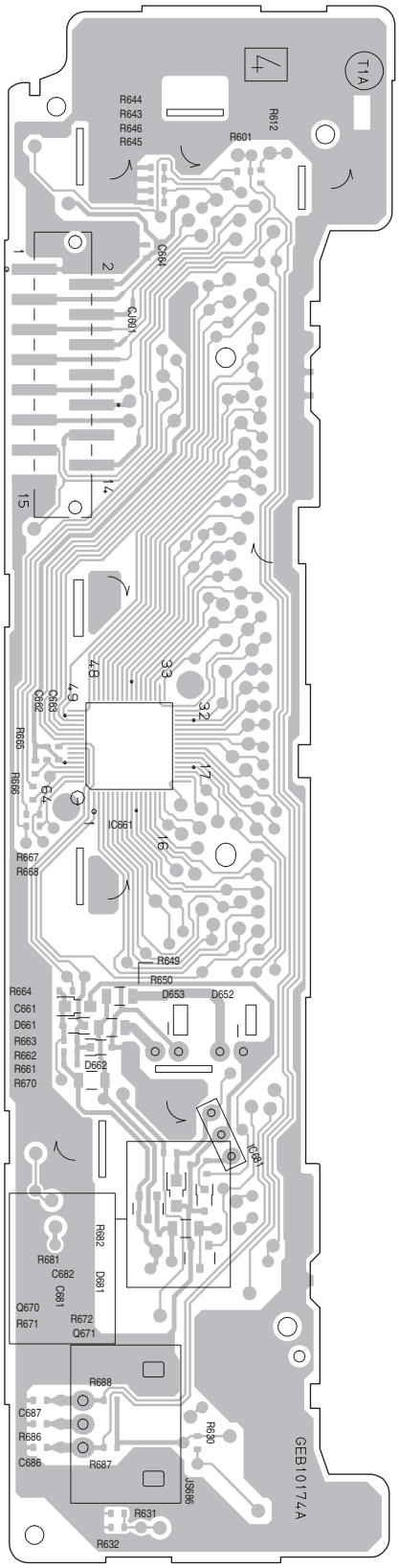
■ Switch board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Forward side



Reverse side



< MEMO >

PARTS LIST

[KD-G120] [KD-G120R]
[KD-G123] [KD-G124]
[KD-G125] [KD-G126]
[KD-G161] [KD-G162]

* All printed circuit boards and its assemblies are not available as service parts.

KD-G120 , KD-G120R
Area suffix
J ---------- Northern America

KD-G123 , KD-G124
Area suffix
UI ---------- India

KD-G125 , KD-G126
Area suffix
UT ----------Taiwan
UH ---------- Thailand
UN ---------- Indonesia
U ---------- Other Areas

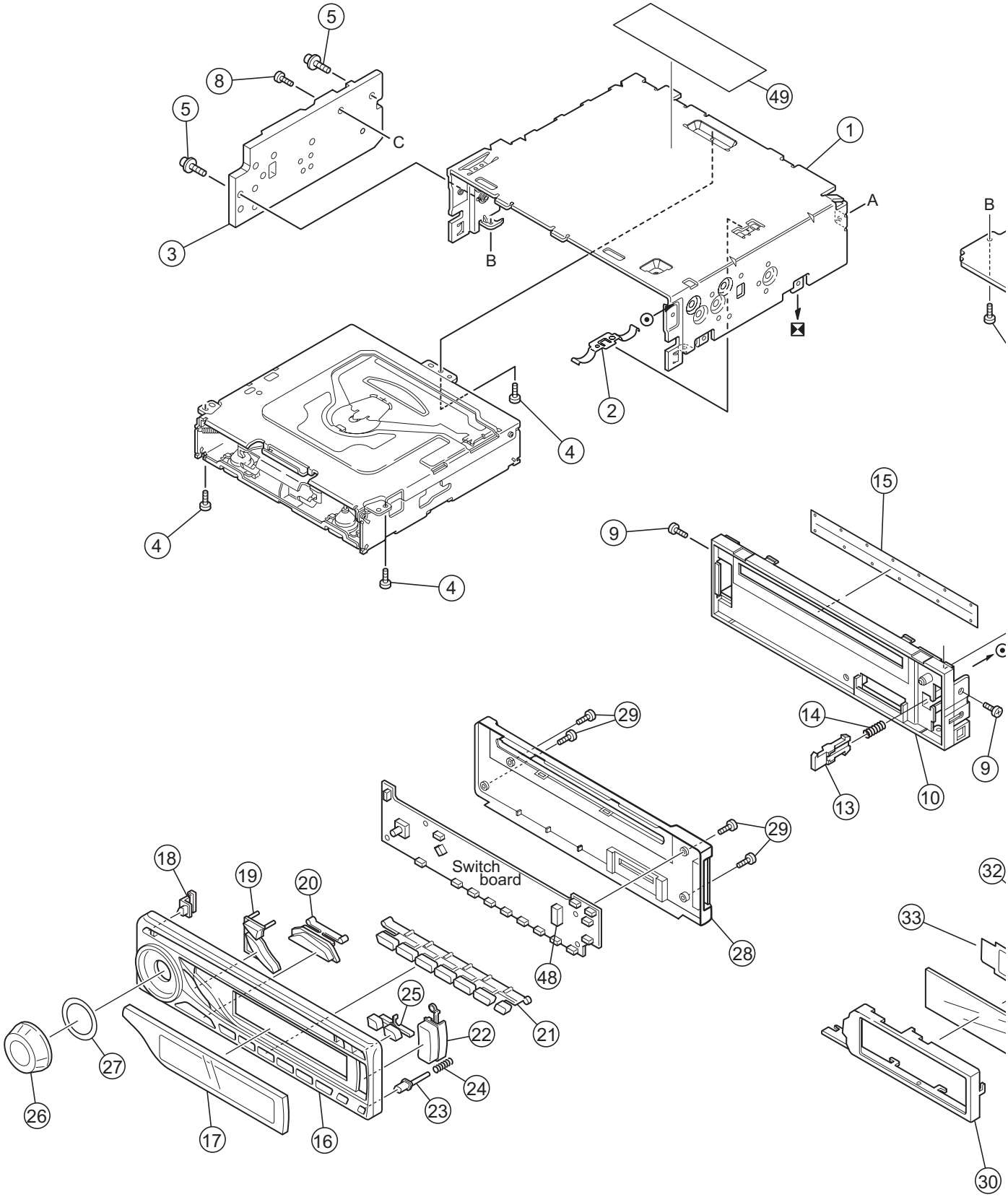
KD-G161 , KD-G162
Area suffix
E ---------- Southern Europe
EX ---------- Northern Europe
EY ---------- Eastern Europe
EU ---------- Turkey

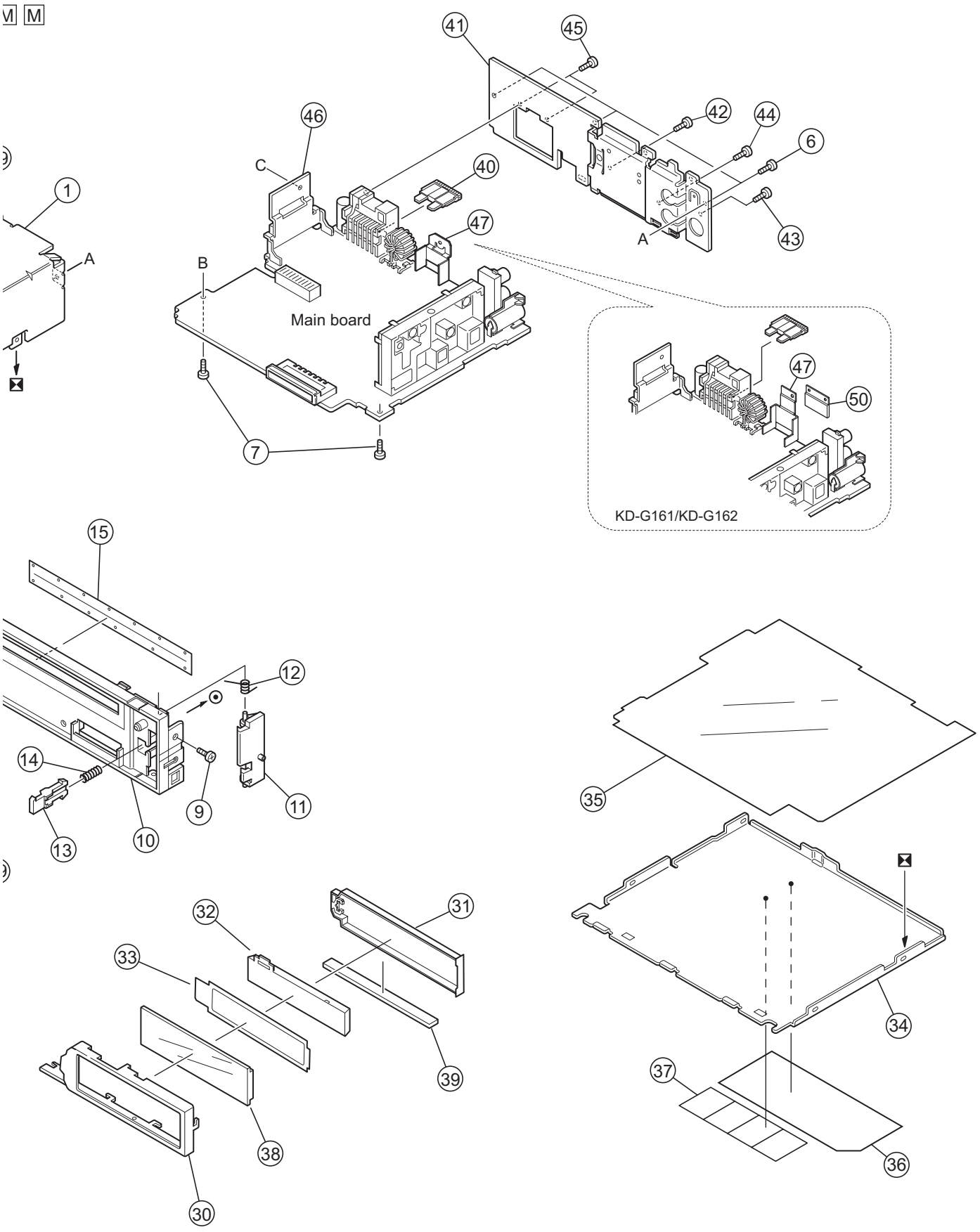
- Contents -

Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
Electrical parts list (Block No.01~04) ---------- 3- 6
Packing materials and accessories parts list (Block No.M3) ---------- 3-14

Exploded view of general assembly and parts list

Block No. M 1 M M




Main board
KD-G161/KD-G162

General Assembly

Block No. [M][1][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	GE10136-001A	TOP CHASSIS		
	2	GE40135-001A	EARTH PLATE		
	3	GE31894-001A	HEAT SINK		
	4	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	5	GE40235-001A	SCREW	(x2)	
	6	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	7	GE40235-004A	SCREW	(x2)	
	8	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	
	9	QYSDST2004ZA	TAP SCREW	M2 x 4mm(x2)	
	10	GE10137-001A	FRONT CHASSIS		
	11	GE31569-002A	LOCK LEVER		
	12	GE40269-001A	TORSION SPRING		
	13	GE31978-001A	RLS KNOB		
	14	GE40202-011A	COMP.SPRING		
	15	GE40294-002A	BLIND		
	16	GE10139-006A	FRONT PANEL		G120J
	16	GE10139-007A	FRONT PANEL		G120RJ
	16	GE10139-027A	FRONT PANEL		G123UI
	16	GE10139-028A	FRONT PANEL		G124UI
	16	GE10139-026A	FRONT PANEL		G125U,G125UH,G125UN,G125UT
	16	GE10139-011A	FRONT PANEL		G126U,G126UH,G126UN,G126UT
	16	GE10139-012A	FRONT PANEL		G161E,G161EU,G161EX,G161EY
	16	GE10139-013A	FRONT PANEL		G162E,G162EU,G162EX,G162EY
	17	GE31967-014A	FINDER ASSY		G120J
	17	GE31967-021A	FINDER ASSY		G120RJ
	17	GE31967-015A	FINDER ASSY		G123UI,G124UI,G125U,G125UH,G125UN,G125UT G126U,G126UH,G126UN,G126UT
	17	GE31967-016A	FINDER ASSY		G161E,G161EU,G161EX,G161EY,G162E,G162EU G162EX,G162EY
	18	GE31968-002A	POWER BUTTON		
	19	GE31969-001A	SRC BUTTON		
	20	GE31970-001A	SEL BUTTON		
	21	GE20188-001A	PRESET BUTTON		
	22	GE31971-001A	SEARCH BUTTON		
	23	GE31972-001A	DETACH BUTTON		
	24	GE40202-013A	COMP.SPRING		
	25	GE31973-001A	EJECT BUTTON		
	26	GE40296-004A	VOL KNOB ASSY		G120J,G120RJ,G124UI,G125U,G125UH,G125UN G125UT
	26	GE40296-001A	VOL KNOB ASSY		G123UI,G126U,G126UH,G126UN,G126UT
	26	GE40296-005A	VOL KNOB ASSY		G161E,G161EU,G161EX,G161EY
	26	GE40296-006A	VOL KNOB ASSY		G162E,G162EU,G162EX,G162EY
	27	GE40323-002A	SHEET		
	28	GE10140-002A	REAR COVER		
	29	VKZ4777-010	MINI SCREW	(x4)	
	30	GE31975-001A	LCD CASE		
	31	GE31977-001A	LENS CASE		
	32	GE31976-001A	LCD LENS		
	33	GE40297-001A	LIGHTING SHEET		
	34	GE31895-001A	BOTTOM COVER		
	35	GE31984-001A	INSULATOR		
	36	GE31834-001A	NAME PLATE		G120J
	36	GE32113-001A	NAME PLATE		G120RJ
	36	GE32005-001A	NAME PLATE		G123UI
	36	GE32008-001A	NAME PLATE		G124UI
	36	GE31837-001A	NAME PLATE		G125U,G125UH,G125UN,G125UT
	36	GE31840-001A	NAME PLATE		G126U,G126UH,G126UN,G126UT
	36	GE31852-001A	NAME PLATE		G161E,G161EU,G161EX,G161EY
	36	GE31855-001A	NAME PLATE		G162E,G162EU,G162EX,G162EY
	37	LV41843-002A	LASER CAUTION		G123UI,G124UI,G125U,G125UH,G125UN,G125UT G126U,G126UH,G126UN,G126UT,G161E,G161EU G161EX,G161EY,G162E,G162EU,G162EX,G162EY
	38	QLD0392-001	LCD MODULE		G120J,G120RJ,G123UI,G124UI,G125U,G125UH G125UN,G125UT,G126U,G126UH,G126UN,G126UT
	38	QLD0390-001	LCD MODULE		G161E,G161EU,G161EX,G161EY,G162E G162EU,G162EX,G162EY
	39	QNZ0823-001	LCD CONNECTOR		
⚠	40	QMFZ047-150-T	FUSE	15A	
	41	GE31571-005A	REAR BRACKET		
	42	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	43	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	44	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm	
	45	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
	46	GE40172-004A	IC BRACKET		
	47	GE40124-002A	REG BRACKET		G120J,G120RJ,G123UI,G124UI,G125U,G125UH G125UN,G125UT,G126U,G126UH,G126UN,G126UT
	47	GE40103-003A	REG BRACKET		G161E,G161EU,G161EX,G161EY,G162E,G162EU G162EX,G162EY

⚠	Symbol No.	Part No.	Part Name	Description	Local
	48	GE30854-001A	LED HOLDER		
	49	GE31574-021A	UT LABEL		G125UT
	49	GE31574-022A	UT LABEL		G126UT
	50	GE40107-002A	HEAT SINK		G161E,G161EU,G161EX,G161EY,G162E,G162EU G162EX,G162EY

Electrical parts list

Main board

(KD-G120,G120R,G123,G124,G125,G126)

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC151	NJM4565E-X	IC		
IC301	BD3809FS-X	IC		
⚠ IC321	LA4743K	POWER IC		G120J G120RJ
⚠ IC321	LA47516	POWER IC		G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
IC501	AN22002A-W	IC		
⚠ IC541	LA6242H-X	IC		
⚠ IC561	MN6627482WA	IC		
⚠ IC801	JES01-9D13	IC		
⚠ IC901	R2S25400DS-E	REGULATOR IC		
Q321	RT1N441C-X	TRANSISTOR		
Q332	KTD1304-X	TRANSISTOR		
Q432	KTD1304-X	TRANSISTOR		
Q501	2SA2093/QR/-T	TRANSISTOR		
Q541	2SA2093/QR/-T	TRANSISTOR		
Q701	RT1N141C-X	DIGI TRANSISTOR		
Q731	2SC3928A/R/-X	TRANSISTOR		
Q732	2SC3928A/R/-X	TRANSISTOR		
Q791	2SA1365/F/-X	TRANSISTOR		
Q792	2SA1530A/R/-X	TRANSISTOR		
Q793	RT1N141C-X	DIGI TRANSISTOR		
Q861	RT1P141C-X	DIGI TRANSISTOR		
Q862	RT1P141C-X	DIGI TRANSISTOR		
Q902	2SC3928A/R/-X	TRANSISTOR		
Q903	2SA1530A/R/-X	TRANSISTOR		
D321	1SS133-T2	SI DIODE		
D332	KDS4148U-X	DIODE		
D333	KDS4148U-X	DIODE		
D405	CRS03-W	SB DIODE		
D551	1A3G-T1	SI DIODE		
D701	1SS355W-X	DIODE C.M		
D702	1SS355W-X	DIODE C.M		
D791	KDS4148U-X	DIODE		
D792	KDS4148U-X	DIODE		
D793	KDS4148U-X	DIODE		G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
D794	KDS4148U-X	DIODE		G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
D801	1SS355W-X	DIODE C.M		G120J G120RJ
D802	1SS133-T2	SI DIODE		G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
D810	KDS4148U-X	DIODE		
D821	UDZW6.2B-X	SI DIODE		
D822	UDZW6.2B-X	SI DIODE		
D823	UDZW6.2B-X	SI DIODE		
D824	UDZW6.2B-X	SI DIODE		
D825	UDZW6.2B-X	SI DIODE		
D826	UDZW6.2B-X	SI DIODE		
D827	UDZW6.2B-X	SI DIODE		
D828	UDZW6.2B-X	SI DIODE		
D851	CRS03-W	SB DIODE		G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
D852	CRS03-W	SB DIODE		G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
D861	MTZJ4.7B-T2	Z DIODE		
D866	KDS4148U-X	DIODE		
D867	KDS4148U-X	DIODE		
D868	KDS4148U-X	DIODE		
D869	KDS4148U-X	DIODE		
⚠ D901	1N5401-F64	DIODE		
D903	1SS133-T2	SI DIODE		
D904	CRS03-W	SB DIODE		
D905	CRS03-W	SB DIODE		
C101	QTE1H57-105Z	E CAPACITOR	1uF 50V	
C102	NCB31HK-392X	C CAPACITOR	3900pF 50V K	G120J G120RJ
C102	NCB31HK-222X	C CAPACITOR	2200pF 50V K	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C151	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C152	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C153	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C155	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C201	QTE1H57-105Z	E CAPACITOR	1uF 50V	
C202	NCB31HK-392X	C CAPACITOR	3900pF 50V K	G120J G120RJ
C202	NCB31HK-222X	C CAPACITOR	2200pF 50V K	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C251	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C252	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C253	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C255	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C256	QTE1A57-107Z	E CAPACITOR	100uF 10V	
C302	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C304	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C308	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C312	QTE1C57-106Z	E CAPACITOR	10uF 16V	
C313	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C314	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C317	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C318	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C319	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C320	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C327	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C328	QTE1C57-476Z	E CAPACITOR	47uF 16V	
C329	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C330	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C331	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C332	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C333	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C334	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C335	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C341	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C402	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C403	QTE1A57-107Z	E CAPACITOR	100uF 10V	
C404	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C408	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C419	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C420	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C427	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C432	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C433	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C434	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C435	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C501	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C502	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C504	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C505	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C506	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C507	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C509	NCB31EK-393X	C CAPACITOR	0.039uF 25V K	
C510	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C511	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C513	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C514	NCB31EK-563X	C CAPACITOR	0.056uF 25V K	
C515	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C516	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C518	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C519	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C520	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C521	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C522	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C523	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C524	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C525	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C528	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C540	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C541	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C542	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C543	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C545	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C546	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C547	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C551	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C552	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C555	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C556	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C557	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C558	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C561	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C562	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C563	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C564	NCB21EK-223X	C CAPACITOR	0.022uF 25V K	
C565	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C566	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C567	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C568	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C571	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C572	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C573	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C574	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C576	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C577	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C579	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C700	NCB31HK-122X	C CAPACITOR	1200pF 50V K	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C701	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C702	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C703	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C704	NCB31HK-122X	C CAPACITOR	1200pF 50V K	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C709	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	G120J G120RJ
C709	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C710	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	G120J G120RJ
C710	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C711	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	G120J G120RJ
C711	NCB31HK-331X	C CAPACITOR	330pF 50V K	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C712	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C713	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C714	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C715	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C717	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C718	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C720	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C725	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C731	QTE1H57-225Z	E CAPACITOR	2.2uF 50V	
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C733	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C801	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C802	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C803	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C804	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C807	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C821	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C822	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C823	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C851	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C852	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C861	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C862	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C864	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C901	QEZ0645-228	E CAPACITOR	2200uF	G120J G120RJ
C901	QEZ0769-278	E CAPACITOR	2700uF	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
C902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C903	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C904	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C905	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C906	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C908	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C909	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C911	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C914	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C915	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C916	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
R101	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	G120J G120RJ G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
R101	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	G120J G120RJ G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
R102	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R151	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R152	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R153	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R154	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R156	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R201	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	G120J G120RJ G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
R201	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R202	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	G120J G120RJ G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
R202	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R251	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R252	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R253	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R256	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R302	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R304	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R307	NRS181J-273X	MG RESISTOR	27kΩ 1/8W J	
R308	NRS181J-273X	MG RESISTOR	27kΩ 1/8W J	
R320	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R321	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R322	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R323	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R333	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R334	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R336	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R401	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R403	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R404	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R407	NRS181J-273X	MG RESISTOR	27kΩ 1/8W J	
R408	NRS181J-273X	MG RESISTOR	27kΩ 1/8W J	
R433	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R436	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R501	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R502	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R503	NRS181J-393X	MG RESISTOR	39kΩ 1/8W J	
R504	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R505	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R506	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R507	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R508	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R509	NRSA63J-363X	MG RESISTOR	36kΩ 1/16W J	
R510	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R511	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R512	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R513	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R516	NRSA63J-623X	MG RESISTOR	62kΩ 1/16W J	
R518	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R524	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R525	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R526	NRS181J-120X	MG RESISTOR	12Ω 1/8W J	
R541	NRSA02J-682X	MG RESISTOR	6.8kΩ 1/10W J	
R542	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R543	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R544	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R545	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R546	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R547	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R548	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R550	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R551	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R552	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R553	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R554	NRS181J-513X	MG RESISTOR	51kΩ 1/8W J	
R557	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R558	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R559	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R560	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R561	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R563	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R564	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R567	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R568	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R569	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R570	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R571	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R573	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R574	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R575	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R576	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R581	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R596	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R708	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R725	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R733	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R735	NRS181J-152X	MG RESISTOR	1.5kΩ 1/8W J	
R736	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	G120J G120RJ G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
R737	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R791	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R792	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R793	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R795	NRS181J-120X	MG RESISTOR	12Ω 1/8W J	
R797	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R798	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R801	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R803	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R804	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R805	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R807	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R808	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R809	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R811	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R812	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R813	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R814	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	

Main board (KD-G161,G162)

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
R815	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R817	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R818	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	G120J G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
R820	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R822	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R823	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R825	NRS181J-203X	MG RESISTOR	20kΩ 1/8W J	
R826	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R827	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R828	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R829	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R830	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R831	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R832	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R833	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R834	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R835	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R836	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R837	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R838	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R840	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R841	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R843	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R844	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R850	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R851	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	G123UI G124UI G125U G125UH G125UN G125UT G126U G126UH G126UN G126UT
R853	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R861	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R862	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R901	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R902	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R903	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R904	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R905	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R906	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R907	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R908	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R909	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R910	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R911	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
L501	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L561	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L562	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L701	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L801	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L901	QQR1695-001	CHOKE COIL		
CJ321	QNN0519-001	PIN JACK		
CJ701	QNB0190-001	CAR ANT JACK		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN801	QGZ1601J1-15	CONNECTOR	(1-15)	
CN901	QNZ0611-001	16P CONNECTOR		
⚠ TU701	QAU0312-002	TUNER PACK		
X561	QAX0714-001Z	C RESONATOR	16.000MHz	
X801	QAX0406-001Z	CRYSTAL	4.500MHz	

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ IC71	LC72725NM-X	IC		
IC171	NJW1192V-X	IC		
⚠ IC301	LA4743K	POWER IC		
⚠ IC501	LA6242H-X	IC		
⚠ IC521	MN6627551CB	IC		
IC581	NJM4565E-X	IC		
⚠ IC701	MN101C77FSA	IC		
IC702	PST9121N-X	IC		
IC703	BR24L16F-W-X	IC		
IC704	NJU7241F33-X	IC		
⚠ IC901	AN80T71	REGULATOR IC		
Q71	RT1N141C-X	DIGI TRANSISTOR		
Q301	2SC3928A/QR/-X	TRANSISTOR		
Q341	KTD1304-X	TRANSISTOR		
Q351	KTD1304-X	TRANSISTOR		
Q501	2SB1322/RS/-T	TRANSISTOR		
Q521	2SA1530A/QR/-X	TRANSISTOR		
Q701	RT1N141C-X	DIGI TRANSISTOR		
Q702	RT1N141C-X	DIGI TRANSISTOR		
Q703	RT1N141C-X	DIGI TRANSISTOR		
Q781	RT1P141C-X	DIGI TRANSISTOR		
Q782	RT1P141C-X	DIGI TRANSISTOR		
Q891	RT1N141C-X	DIGI TRANSISTOR		
Q901	2SA1530A/QR/-X	TRANSISTOR		
Q902	RT1N141C-X	DIGI TRANSISTOR		
Q903	RT1N141C-X	DIGI TRANSISTOR		
Q904	2SA1530A/QR/-X	TRANSISTOR		
Q911	2SA1530A/QR/-X	TRANSISTOR		
Q912	RT1N441C-X	TRANSISTOR		
D1	1SS355W-X	DIODE C.M		
D2	1SS355W-X	DIODE C.M		
D301	UDZS3.3B-X	Z DIODE		
D341	1SS355W-X	DIODE C.M		
D351	1SS355W-X	DIODE C.M		
D501	1A3G-T1	SI DIODE		
D701	UDZW6.2B-X	SI DIODE		
D702	UDZW6.2B-X	SI DIODE		
D703	UDZW6.2B-X	SI DIODE		
D704	UDZW6.2B-X	SI DIODE		
D705	UDZW6.2B-X	SI DIODE		
D706	UDZW6.2B-X	SI DIODE		
D707	UDZW6.2B-X	SI DIODE		
D708	UDZW6.2B-X	SI DIODE		
D709	UDZW6.2B-X	SI DIODE		
D710	1SS355W-X	DIODE C.M		
D712	UDZW6.2B-X	SI DIODE		
D713	1SS355W-X	DIODE C.M		
D781	CRS03-W	SB DIODE		
D782	UDZW11B-X	Z DIODE		
D891	MC2836-X	DIODE		
⚠ D901	1N5401-F64	DIODE		
D903	1SS355W-X	DIODE C.M		
D904	CRS03-W	SB DIODE		
D906	1SS355W-X	DIODE C.M		
D971	CRS03-W	SB DIODE		
C1	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C4	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C5	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C6	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C7	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C8	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C71	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C72	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C73	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C74	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C75	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C76	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C77	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C78	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C82	QTE1E57-475Z	E CAPACITOR	4.7uF 25V	
C84	QTE1E57-475Z	E CAPACITOR	4.7uF 25V	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C85	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C92	QTE1E57-475Z	E CAPACITOR	4.7uF 25V	
C94	QTE1E57-475Z	E CAPACITOR	4.7uF 25V	
C161	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C162	NCB31AK-154X	C CAPACITOR	0.15uF 10V K	
C163	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C164	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C165	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C167	QTE1E57-475Z	E CAPACITOR	4.7uF 25V	
C168	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C169	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C171	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C172	NCB31AK-154X	C CAPACITOR	0.15uF 10V K	
C173	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C174	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C175	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C177	QTE1E57-475Z	E CAPACITOR	4.7uF 25V	
C178	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C179	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C180	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C181	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C182	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C183	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C184	QTE1C57-106Z	E CAPACITOR	10uF 16V	
C185	QTE1A57-107Z	E CAPACITOR	100uF 10V	
C186	NCB31AK-154X	C CAPACITOR	0.15uF 10V K	
C187	NCB31AK-154X	C CAPACITOR	0.15uF 10V K	
C301	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C302	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C303	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C304	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C305	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C306	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C307	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C308	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C309	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C310	QTE1C57-476Z	E CAPACITOR	47uF 16V	
C311	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C312	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C313	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C314	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C315	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C316	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
C319	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C341	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C351	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C501	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C503	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C504	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C511	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C512	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C513	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C515	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C517	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C518	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C521	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C522	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C524	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C525	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C526	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C527	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C528	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C529	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C530	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C531	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C532	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C533	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C534	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C535	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C536	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C537	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C538	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C539	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C540	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C541	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C542	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C543	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C544	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C545	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C546	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C547	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C548	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C549	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C550	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C551	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C552	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C553	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C583	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C584	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C585	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C586	QTE1H54-225Z	E CAPACITOR	2.2uF 50V	
C587	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C588	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C589	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C591	QTE1A57-107Z	E CAPACITOR	100uF 10V	
C592	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C701	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C702	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C705	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C706	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C707	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C708	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C709	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	
C710	NCB31AK-154X	C CAPACITOR	0.15uF 10V K	
C711	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C712	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C713	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C715	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C716	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C718	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C721	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C722	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C781	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C782	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C783	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C891	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C901	QEZ0645-228	E CAPACITOR	2200uF	
C902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C903	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C904	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C905	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C906	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C908	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C909	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C915	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C916	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C919	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
R1	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2	NRS181J-120X	MG RESISTOR	12Ω 1/8W J	
R3	NRS181J-120X	MG RESISTOR	12Ω 1/8W J	
R4	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R5	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D	
R10	NRSA63D-683X	MG RESISTOR	68kΩ 1/16W D	
R75	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R81	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R82	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R91	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R92	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R160	NRSA63J-150X	MG RESISTOR	15Ω 1/16W J	
R162	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R163	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R164	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R168	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R172	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R173	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R174	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R178	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R180	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R181	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R182	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R183	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R190	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R191	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R301	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R302	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R303	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R304	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R341	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R342	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R343	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R351	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R352	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R500	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R501	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R502	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R503	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R505	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
R506	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R507	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R508	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R509	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R510	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R511	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R512	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R514	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R515	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R517	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R518	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R519	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R520	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R522	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R524	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R525	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R526	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R527	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R528	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R529	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R538	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R539	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R540	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R541	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R542	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R543	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R544	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R545	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R548	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R552	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R553	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R554	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R556	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R558	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R559	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R565	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R566	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R568	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R583	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R584	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R585	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R586	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R587	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R588	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R589	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R590	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R591	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R592	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R593	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R594	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R595	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R707	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R708	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R709	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R710	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R713	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R714	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R715	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R717	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R720	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R721	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R722	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R723	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R724	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R725	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R726	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R727	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R730	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R732	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R735	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R736	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R737	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R740	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R745	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R748	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R749	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R750	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R751	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R752	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R754	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R755	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R756	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R757	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R758	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R759	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R760	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R762	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R763	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R766	NRS181J-682X	MG RESISTOR	6.8kΩ 1/8W J	
R767	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R768	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R769	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R770	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R891	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R892	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R901	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R902	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R903	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R905	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R906	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R907	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R908	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R909	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R910	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R911	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R912	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
L1	QQL801K-4R7Y	COIL	4.7uH K	
L701	QQL801K-4R7Y	COIL	4.7uH K	
L901	QQR0703-001	CHOKE COIL		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN701	QGZ1601J1-15	CONNECTOR	(1-15)	
CN901	QNZ0611-001	16P CONNECTOR		
J1	QNB0190-001	CAR ANT JACK		
J321	QNN0519-001	PIN JACK		
S701	QSW1049-001Z	TACT SW		
⚠ TU1	QAU0443-001	TUNER		
X71	QAX0263-001Z	CRYSTAL	4.332MHz	
X521	QAX0893-001Z	CRYSTAL		
X701	QAX0667-001Z	C RESONATOR	8.000MHz	

⚠ Symbol No.	Part No.	Part Name	Description	Local
X702	QAX0401-001	CRYSTAL	32.768KHz	

Switch board (KD-G120,G120R,G123,G124,G125,G126)

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC661	PT6523LQ-L	LCD DRIVER		
IC681	RPM7338-V4	RM.RECEIVER		G120RJ
D630	SML-310LT/MN/-X	LED		
D631	SML-310VT/JK/-X	LED		
D633	SML-310VT/JK/-X	LED		
D635	SML-310VT/JK/-X	LED		
D636	SML-310VT/JK/-X	LED		
D637	SML-310VT/JK/-X	LED		
D638	SML-310VT/JK/-X	LED		
D639	SML-310VT/JK/-X	LED		
D640	SML-310VT/JK/-X	LED		
D641	SML-310VT/JK/-X	LED		
D642	SML-310VT/JK/-X	LED		
D643	SML-310VT/JK/-X	LED		
D644	SML-310VT/JK/-X	LED		
D645	SML-310VT/JK/-X	LED		
D646	SML-310VT/JK/-X	LED		
D647	SML-310VT/JK/-X	LED		
D648	SML-310VT/JK/-X	LED		
D649	SML-310VT/JK/-X	LED		
D652	NSPW310BS/BRST/	WHITE LED		
D653	NSPW310BS/BRST/	WHITE LED		
D661	1SS355W-X	DIODE C.M		
D662	UDZW5.1B-X	SI DIODE		
D681	MA8062/M/-X	Z DIODE		G120RJ
C661	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C662	NDC31HJ-681X	C CAPACITOR	680pF 50V J	
C663	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C681	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	G120RJ
C682	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	G120RJ
C686	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C687	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
R601	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R602	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R603	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R604	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R605	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R606	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R607	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R608	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R609	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R610	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R611	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R612	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R613	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R630	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R631	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R633	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R637	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R639	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R641	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R643	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R645	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R649	NRS181J-361X	MG RESISTOR	360Ω 1/8W J	
R650	NRS181J-361X	MG RESISTOR	360Ω 1/8W J	
R661	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R662	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R663	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R665	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R666	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R667	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R668	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R670	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R681	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	G120RJ
R682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	G120RJ
R686	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
JS686	QSW0976-001	ROTARY ENCODER		
S601	NSW0124-001X	TACT SW		
S602	NSW0124-001X	TACT SW		
S603	NSW0124-001X	TACT SW		
S604	NSW0124-001X	TACT SW		
S605	NSW0124-001X	TACT SW		
S606	NSW0124-001X	TACT SW		
S607	NSW0124-001X	TACT SW		
S608	NSW0124-001X	TACT SW		
S609	NSW0124-001X	TACT SW		
S610	NSW0124-001X	TACT SW		
S611	NSW0124-001X	TACT SW		
S612	NSW0124-001X	TACT SW		
S613	NSW0124-001X	TACT SW		
S614	NSW0124-001X	TACT SW		
S615	NSW0124-001X	TACT SW		
S616	NSW0124-001X	TACT SW		

Switch board (KD-G161,G162)

Block No. [0][4]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC661	PT6523LQ-L	LCD DRIVER		
D630	SML-310LT/MN/-X	LED		
D631	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D631	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D632	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D633	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D634	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D635	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D635	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D636	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D636	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D637	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D637	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D638	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D638	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D639	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D639	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY

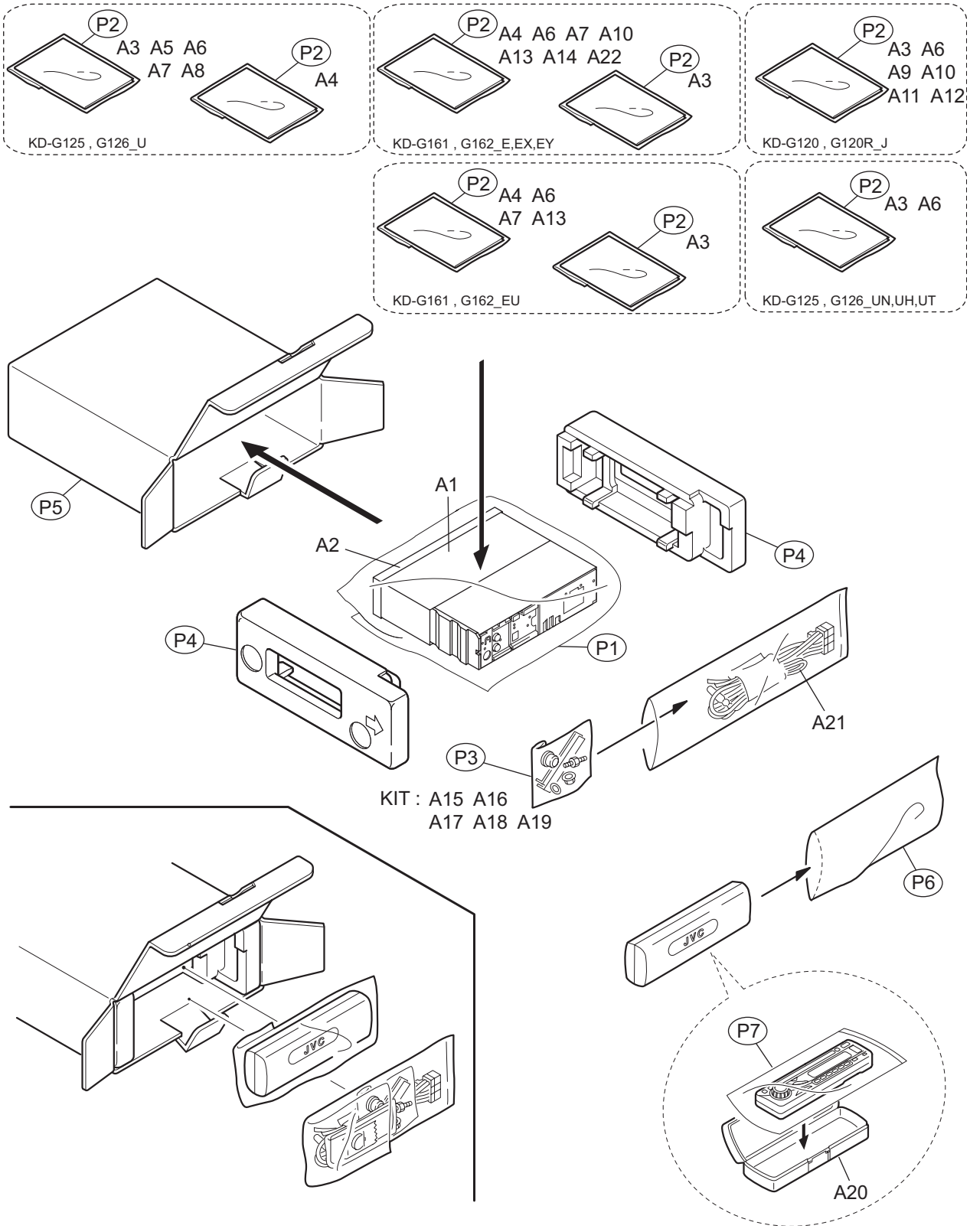
⚠ Symbol No.	Part No.	Part Name	Description	Local
D640	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D640	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D641	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D641	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D642	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D642	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D643	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D643	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D644	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D644	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D645	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D645	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D646	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D646	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D647	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D647	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D648	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D648	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D649	LNJ308G81/1-3/X	LED		G161E G161EU G161EX G161EY
D649	SML-310VT/JK/-X	LED		G162E G162EU G162EX G162EY
D652	NSPW310BS/BRST/	WHITE LED		
D653	NSPW310BS/BRST/	WHITE LED		
D661	1SS355W-X	DIODE C.M		
D662	UDZW5.1B-X	SI DIODE		
C661	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C662	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C663	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C686	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C687	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R609	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R610	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R611	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R612	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R613	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R630	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R631	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R633	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	G161E G161EU G161EX G161EY
R633	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	G162E G162EU G162EX G162EY
R634	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	G161E G161EU G161EX G161EY
R635	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	G161E G161EU G161EX G161EY
R637	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R639	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R641	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R643	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R645	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R649	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R650	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R661	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R662	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R663	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R665	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R666	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R667	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R668	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R670	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R686	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
CJ601	QGZ1601K1-15S	CONNECTOR	(1-15)	
JS686	QSW0976-001	ROTARY ENCODER		
S601	NSW0283-001X	TACT SW		
S602	NSW0283-001X	TACT SW		
S603	NSW0283-001X	TACT SW		
S604	NSW0283-001X	TACT SW		
S605	NSW0283-001X	TACT SW		
S606	NSW0283-001X	TACT SW		
S607	NSW0283-001X	TACT SW		
S608	NSW0283-001X	TACT SW		
S609	NSW0283-001X	TACT SW		
S610	NSW0283-001X	TACT SW		
S611	NSW0283-001X	TACT SW		
S612	NSW0283-001X	TACT SW		
S613	NSW0283-001X	TACT SW		
S614	NSW0283-001X	TACT SW		
S615	NSW0283-001X	TACT SW		
S616	NSW0283-001X	TACT SW		

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDs are available.



Packing and Accessories

Block No. [M][3][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	GE20137-003A	MOUNTING SLEEVE		
	A 2	GE20135-010A	TRIM PLATE		G120J,G120RJ,G124UI,G125U,G125UH,G125UN G125UT,G161E,G161EU,G161EX,G161EY
	A 2	GE20135-001A	TRIM PLATE		G123UI,G126U,G126UH,G126UN,G126UT,G162E G162EU,G162EX,G162EY
	A 3	GET0330-001A	INST BOOK	ENG SPA FRE	G120J,G120RJ
	A 3	GET0332-001A	INST BOOK	ENG	G123UI,G124UI
	A 3	GET0331-001A	INST BOOK	ENG THA	G125U,G125UH,G126U,G126UH
	A 3	GET0331-004A	INST BOOK	ENG INA	G125UN,G126UN
	A 3	GET0331-005A	INST BOOK	ENG CHI(TAIWAN)	G125UT,G126UT
	A 3	GET0334-001A	INST BOOK	GER FRE ITA	G161E,G162E
	A 3	GET0334-005A	INST BOOK	SPA TUR PER	G161EU,G162EU
	A 3	GET0334-004A	INST BOOK	DUT SWE DAN FIN	G161EX,G162EX
	A 3	GET0334-006A	INST BOOK	ENG GER RUS	G161EY,G162EY
	A 4	GET0331-002A	INST BOOK	KOR CHI(TAIWAN) ARA PER	G125U,G126U
	A 4	GET0334-002A	INST BOOK	SPA GER POR	G161E,G162E
	A 4	GET0334-003A	INST BOOK	ENG FRE	G161EU,G161EX,G162EU,G162EX
	A 4	GET0334-007A	INST BOOK	POL CZE HUN	G161EY,G162EY
	A 5	GET0331-003A	INST BOOK	RUS	G125U,G126U
	A 6	GET0330-002A	INSTALL MANUAL		G120J,G120RJ
	A 6	GET0332-002A	INSTALL MANUAL		G123UI,G124UI
	A 6	GET0331-006A	INSTALL MANUAL		G125U,G125UH,G126U,G126UH
	A 6	GET0331-009A	INSTALL MANUAL		G125UN,G126UN
	A 6	GET0331-010A	INSTALL MANUAL		G125UT,G126UT
	A 6	GET0334-008A	INSTALL MANUAL		G161E,G162E
	A 6	GET0334-010A	INSTALL MANUAL		G161EU,G161EX,G162EU,G162EX
	A 6	GET0334-013A	INSTALL MANUAL		G161EY,G162EY
	A 7	GET0331-007A	INSTALL MANUAL		G125U,G126U
	A 7	GET0334-009A	INSTALL MANUAL		G161E,G162E
	A 7	GET0334-012A	INSTALL MANUAL		G161EU,G162EU
	A 7	GET0334-011A	INSTALL MANUAL		G161EX,G162EX
	A 7	GET0334-014A	INSTALL MANUAL		G161EY,G162EY
	A 8	GET0331-008A	INSTALL MANUAL		G125U,G126U
	A 9	LVT0717-001B	TROUBLE SHEET(C		G120J,G120RJ
	A 10	----------	WARRANTY CARD	BT-52006-2	G120J,G120RJ
	A 10	----------	WARRANTY CARD	BT-54027-1	G161E,G161EX,G161EY,G162E,G162EX,G162EY
	A 11	----------	WARRANTY CARD	BT-51018-4	G120J,G120RJ
	A 12	BT-51034-2	REGISTRATION CARD		G120J,G120RJ
	A 13	LVT1435-001A	WEEE SHEET		G161E,G161EU,G161EX,G161EY,G162E,G162EU G162EX,G162EY
	A 14	VND3046-001	SERIAL TICKET		G161E,G161EX,G161EY,G162E,G162EX,G162EY
	A 15	VKZ4027-202	PLUG NUT		
	A 16	VKH4871-003	MOUNT BOLT		
	A 17	VKZ4328-003	LOCK NUT		
	A 18	QYWWS53A008ZA	WASHER	0mm/5.3mm x	
	A 19	GE40130-002A	HOOK	(x2)	
	A 20	FSJB3002-30C	HARD CASE		
	A 21	QAM0013-008	16P CORD ASSY		G120J,G120RJ
	A 21	QAM0390-004	16P CORD ASSY		G123UI,G124UI,G125U,G125UH,G125UN,G125UT G126U,G126UH,G126UN,G126UT
⚠	A 21	QAM0463-002	POWER CORD		G161E,G161EU,G161EX,G161EY,G162E,G162EU G162EX,G162EY
	A 22	VND3050-002	IDENTITY CARD		G161E,G161EX,G161EY,G162E,G162EX,G162EY
	KIT	SRW-385U	SCREW PART KIT	A15 A16 A17 A18 A19	
	P 1	QPC03004315P	POLY BAG	30cm x 43cm	
	P 2	FSPG4002-001	POLY BAG		G120J,G120RJ,G123UI,G124UI,G125UH,G125UN G125UT,G126UH,G126UN,G126UT
	P 2	FSPG4002-001	POLY BAG	(x2)	G125U,G126U,G161E,G161EU,G161EX,G161EY G162E,G162EU,G162EX,G162EY
	P 3	QPA00801205	POLY BAG	8cm x 12cm	
	P 4	GE10070-003A	EPS CUSHION		
	P 5	GE31835-002A	CARTON		G120J
	P 5	GE32114-002A	CARTON		G120RJ
	P 5	GE32006-002A	CARTON		G123UI
	P 5	GE32009-002A	CARTON		G124UI
	P 5	GE31838-002A	CARTON		G125U,G125UH,G125UN,G125UT
	P 5	GE31841-002A	CARTON		G126U,G126UH,G126UN,G126UT
	P 5	GE31853-002A	CARTON		G161E,G161EU,G161EX,G161EY
	P 5	GE31856-002A	CARTON		G162E,G162EU,G162EX,G162EY
	P 6	QPA01003003	POLY BAG	10cm x 30cm	
	P 7	QPC01002515	POLY BAG	10cm x 25cm	

SPECIFICATION

KD-G120R/KD-G120

AUDIO AMPLIFIER SECTION		
Power Output		17 W RMS × 4 Channels at 4 Ω and [< or =] 1% THD+N
Signal to Noise Ratio		80 dBA (reference: 1 W into 4 Ω)
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	±10 dB at 100 Hz
	Treble	±10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Line-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
Subwoofer-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 107.9 MHz (with channel interval set to 100 kHz or 200 kHz) 87.5 MHz to 108.0 MHz (with channel interval set to 50 kHz)
	AM	530 kHz to 1 710 kHz (with channel interval set to 10 kHz) 531 kHz to 1 602 kHz (with channel interval set to 9 kHz)
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	35 dB
	Capture Ratio	1.5 dB
AM Tuner	Sensitivity	20 μV
	Selectivity	35 dB
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C (32°F to 104°F)
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm (7-3/16" × 2-1/16" × 5-15/16")
	Panel Size (approx.)	188 mm × 58 mm × 11 mm (7-7/16" × 2-5/16" × 7/16")
Mass (approx.)		1.2 kg (2.6 lbs) (excluding accessories)

Design and specifications are subject to change without notice.

KD-G124/KD-G123

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	±10 dB at 100 Hz
	Treble	±10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal to Noise Ratio		70 dB
Line-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
Subwoofer-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	35 dB
	Capture Ratio	1.5 dB
AM Tuner	Sensitivity	20 μV
	Selectivity	35 dB
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Wow and Flutter: Less than measurable limit
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm
	Panel Size (approx.)	188 mm × 58 mm × 11 mm
Mass (approx.)		1.2 kg (excluding accessories)

Design and specifications are subject to change without notice.

KD-G126/KD-G125

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	±10 dB at 100 Hz
	Treble	±10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal to Noise Ratio		70 dB
Line-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
Subwoofer-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	35 dB
	Capture Ratio	1.5 dB
AM Tuner	Sensitivity	20 μV
	Selectivity	35 dB
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm
	Panel Size (approx.)	188 mm × 58 mm × 11 mm
Mass (approx.)		1.2 kg (excluding accessories)

Design and specifications are subject to change without notice.

KD-G162/KD-G161

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	45 W per channel
	Rear	45 W per channel
Continuous Power Output (RMS)	Front	17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	17 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	±10 dB at 100 Hz
	Treble	±10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	(MW) 522 kHz to 1 620 kHz (LW) 144 kHz to 279 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	30 dB
	Capture Ratio	1.5 dB
MW Tuner	Sensitivity	20 μV
	Selectivity	35 dB
LW Tuner	Sensitivity	50 μV
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm
	Panel Size (approx.)	188 mm × 58 mm × 11 mm
Mass (approx.)		1.2 kg (excluding accessories)

Design and specifications are subject to change without notice.

SECTION 1
PRECAUTIONS

1.1 Safety Precautions

> ⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

> ⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

1.2 Preventing static electricity

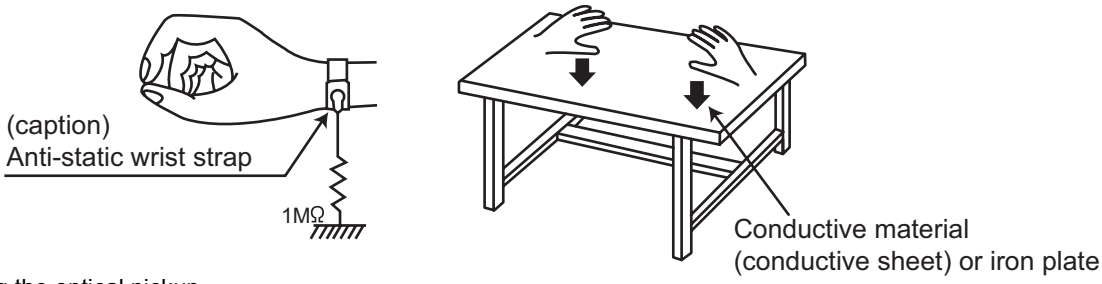
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.2.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

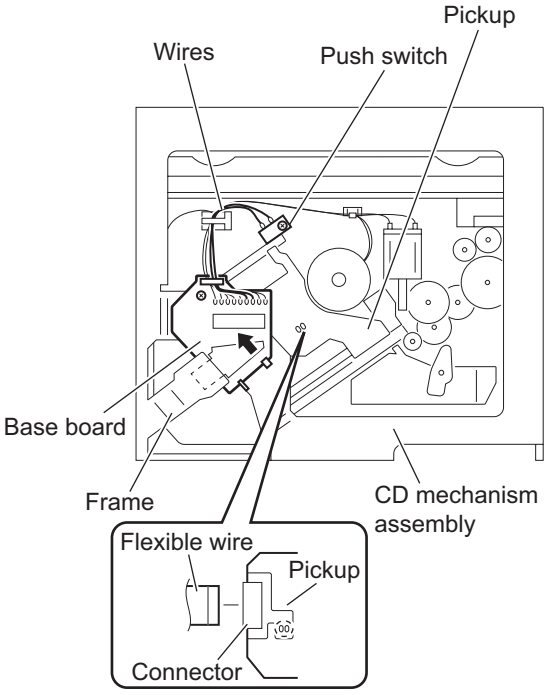
1.3 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.4 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the CD pickup unit.**

- Apply solder to the short land before the flexible wire is disconnected from the connector on the CD pickup unit. (If the flexible wire is disconnected without applying solder, the CD pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land after connecting the flexible wire.



1.5 Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The CD,MD and DVD player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSUREBTO BEAM.	**VARNING :** Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymätttömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

CLASS 1
LASER PRODUCT

CAUTION : Visible and Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL** : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejeler. Undgå direkte eksponering til stråling. (d)	**VARNING** : Synlig och osynling laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO**: Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 CD mechanism

For the CD mechanism, please refer mechanism manual TN2007-1001 (No. MY003).

SECTION 3
DISASSEMBLY

3.1 Main body section

3.1.1 Removing the front panel assembly (See Fig.1)

(1) Push the detach button in the lower right part of the front panel assembly and remove the front panel assembly.

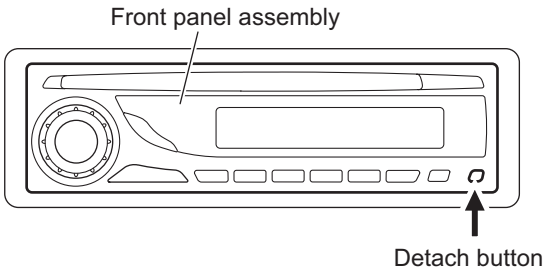


Fig.1

3.1.2 Removing the bottom cover (See Fig.2)

(1) Turn the main body up side down.

(2) Insert a screwdriver under the joints to release the two joints **a** on the left side, two joints **b** on the right side and joint **c** on the back side of the main body, then remove the bottom cover from the main body.

Note:

When releasing the joints using a screwdriver, do not damage the main board.

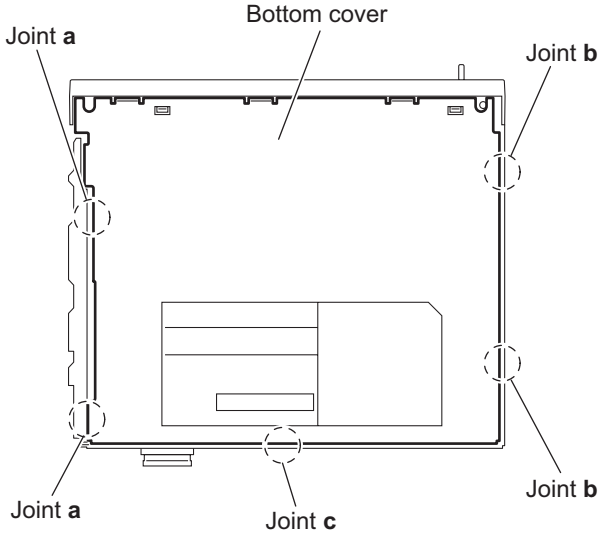


Fig.2

3.1.3 Removing the front chassis assembly (See Fig.3)

- Remove the front panel assembly and bottom cover.

(1) Remove the two screws **A** on the both sides of the main body.

(2) Release the two joints **d** and two joints **e** on the both sides of the main body, then remove the front chassis assembly toward the front.

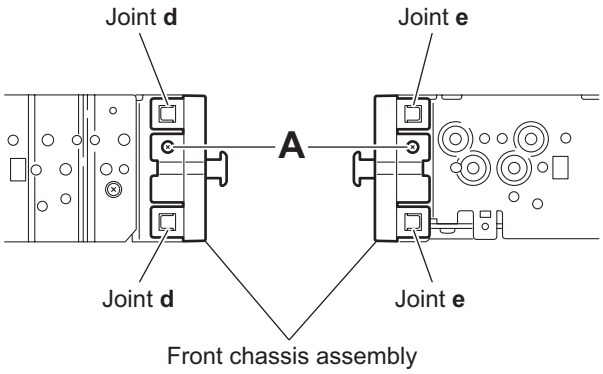


Fig.3

3.1.4 Removing the side panel (See Fig.4)

Reference:

Remove the front panel assembly as required.

(1) Remove the screw **B** and two screws **C** attaching the side panel on the left side of the main body.

(2) Remove the side panel from the main body.

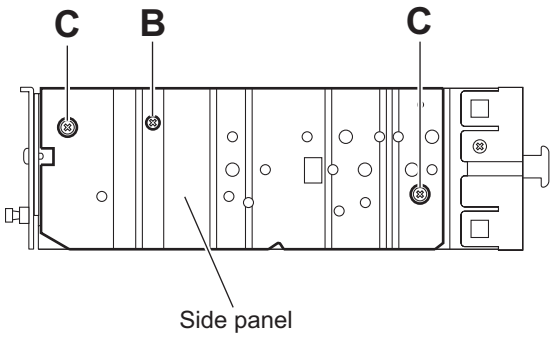


Fig.4

3.1.5 Removing the rear bracket (See Fig.5)

- Remove the bottom cover.

(1) Remove the three screws **D**, three screws **E** and two screws **F** attaching the rear bracket on the back side of the main body.

(2) Remove the rear bracket.

3.1.6 Removing the main board (See Figs.5 and 6)

- Remove the front panel assembly, bottom cover and side panel.

Reference:

Remove the front chassis assembly as required.

(1) Remove the three screws **D** attaching the rear bracket on the back side of the main body. (See Fig.5.)

(2) Remove the two screws **G** attaching the main board. (See Fig.6.)

(3) Disconnect the connector CN501 on the main board from the main body and take out the main board with the rear bracket. (See Fig.6.)

Reference:

Remove the rear bracket from the main body as required. (See "3.1.5 Removing the rear bracket".)

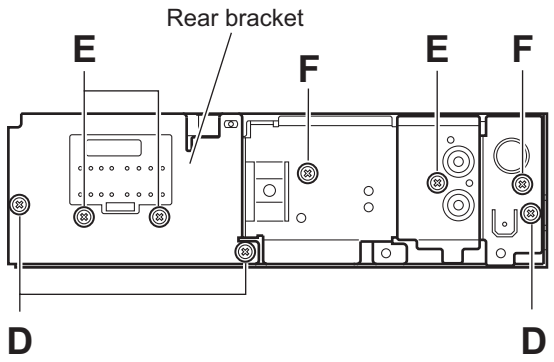


Fig.5

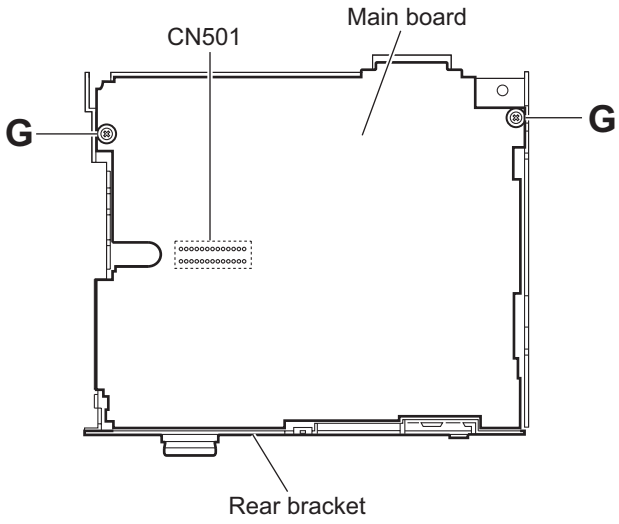


Fig.6

3.1.7 Removing the CD mechanism assembly (See Fig. 7)

- Remove the front panel assembly, bottom cover, side panel, rear bracket and main board.

Reference:

Remove the front chassis assembly as required.

(1) Remove the three screws **H** attaching the CD mechanism assembly on the top chassis.

(2) Take out the CD mechanism assembly.

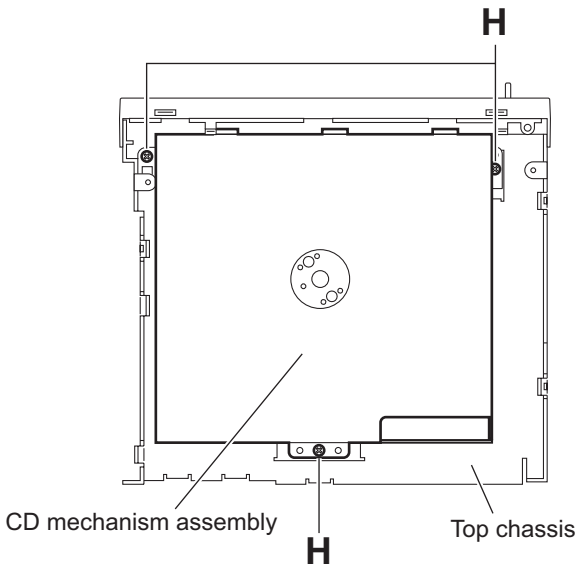


Fig.7

3.1.8 Removing the switch board (See Figs.8 to 10)

- Remove the front panel assembly.

(1) Remove the four screws **J** on the back side of the front panel assembly. (See Fig.8.)

(2) Release the joints **f** and remove the rear cover. (See Fig.9.)

(3) Release the joint **g** and take out the switch board from the front panel assembly. (See Fig.10.)

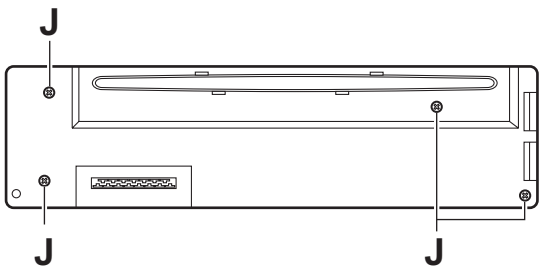


Fig.8

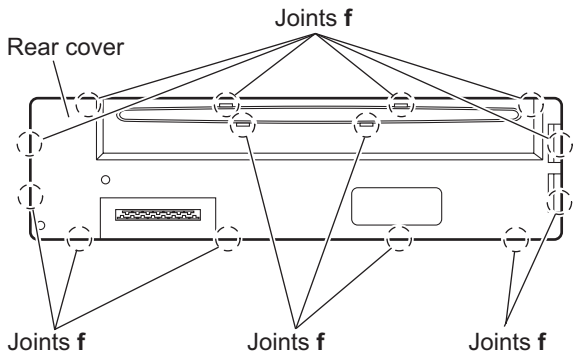


Fig.9

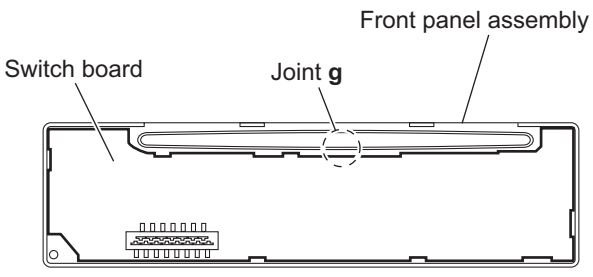


Fig.10

SECTION 4
ADJUSTMENT

4.1 Adjustment method

■ **Test instruments required for adjustment**

(1) Digital oscilloscope (100MHz)
(2) Electric voltmeter
(3) Digital tester
(4) Tracking offset meter
(5) Test Disc JVC :CTS-1000
(6) Extension cable for check
EXTSH002-22P × 1

■ **Standard volume position**

Balance and Bass &Treble volume : Indication"0"
Loudness : OFF

■ **How to connect the extension cable for adjusting**

Caution:

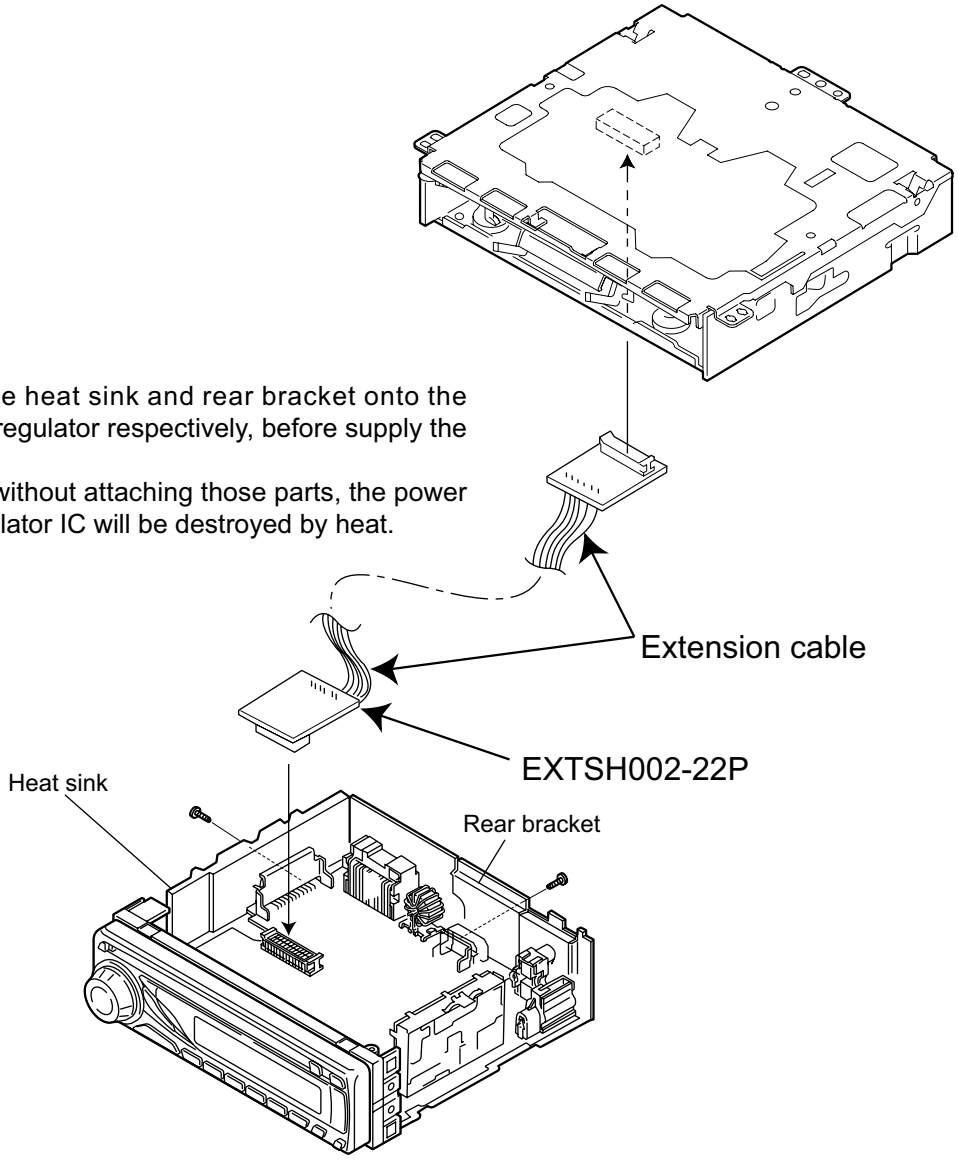
Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

■ **Standard measuring conditions**

Power supply voltage	DC14.4V(10.5 to 16V)
Load impedance	20KΩ(2 Speakers connection)
Output Level	Line out 2.0V (Vol. MAX)

■ **Dummy load**

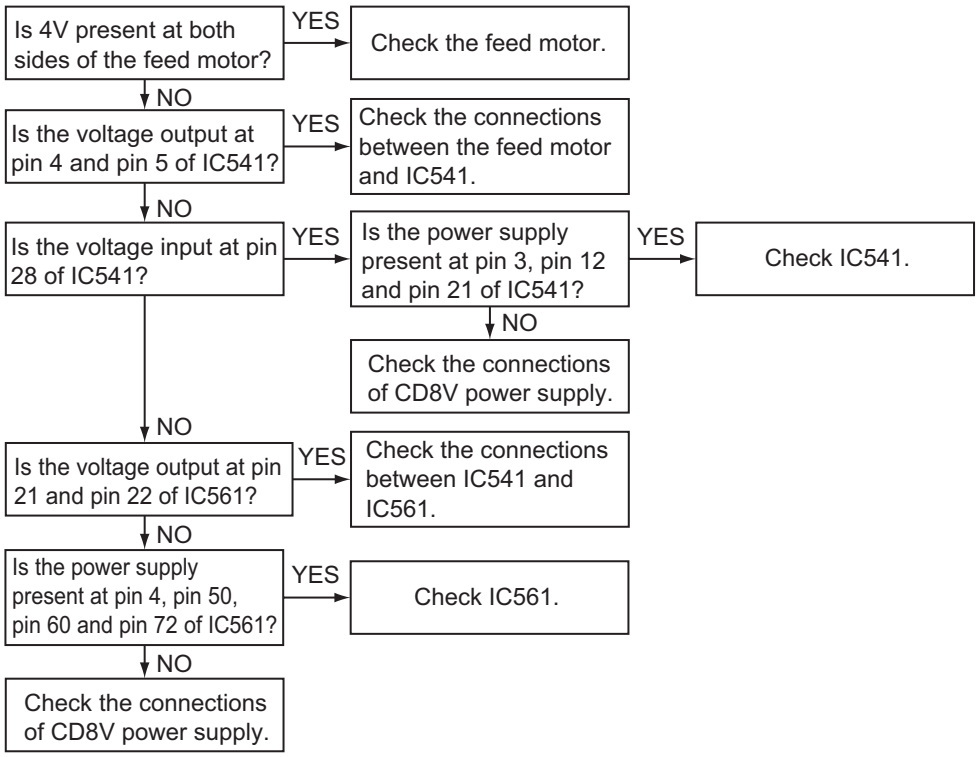
Exclusive dummy load should be used for AM,and FM. For FM dummy load,there is a loss of 6dB between SSG output and antenna input.The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.


CAUTION :
Be sure to attach the heat sink and rear bracket onto the power amplifier and regulator respectively, before supply the power.
If voltage is applied without attaching those parts, the power amplifier IC and regulator IC will be destroyed by heat.
Extension cable
EXTSH002-22P
Heat sink
Rear bracket

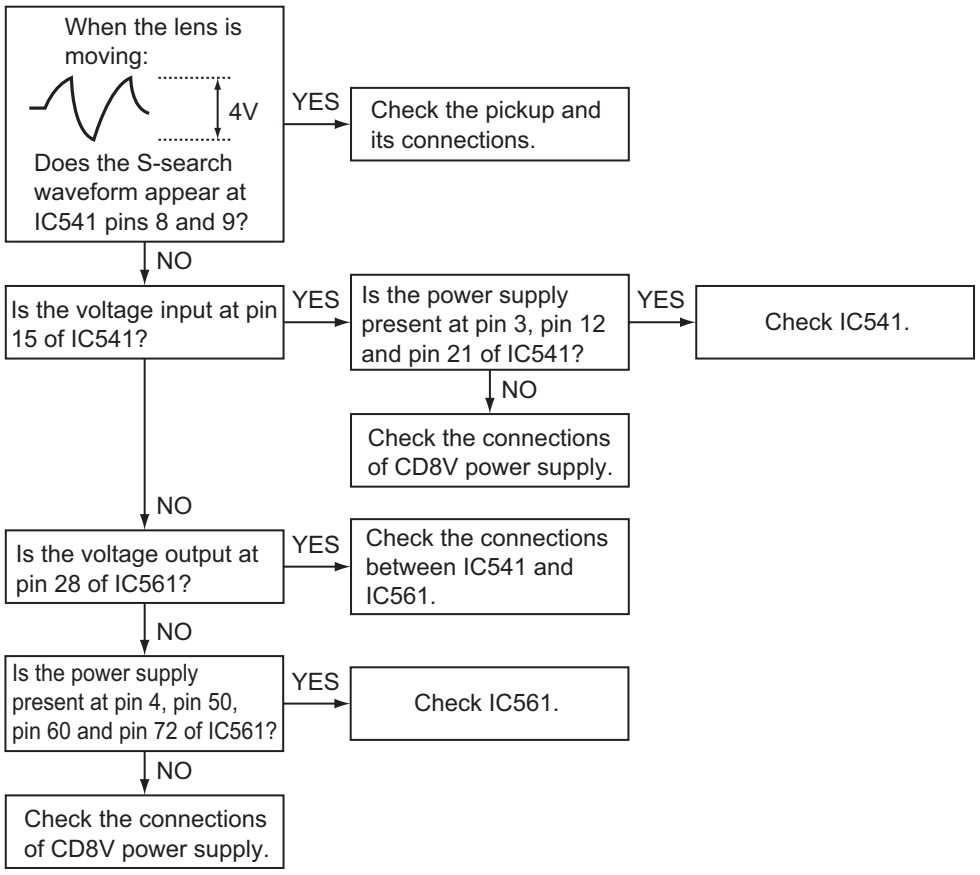
SECTION 5
TROUBLESHOOTING

5.1 Trouble shooting (For KD-G120, KD-G120R, KD-G123, KD-G124,KD-G125 and KD-G126)

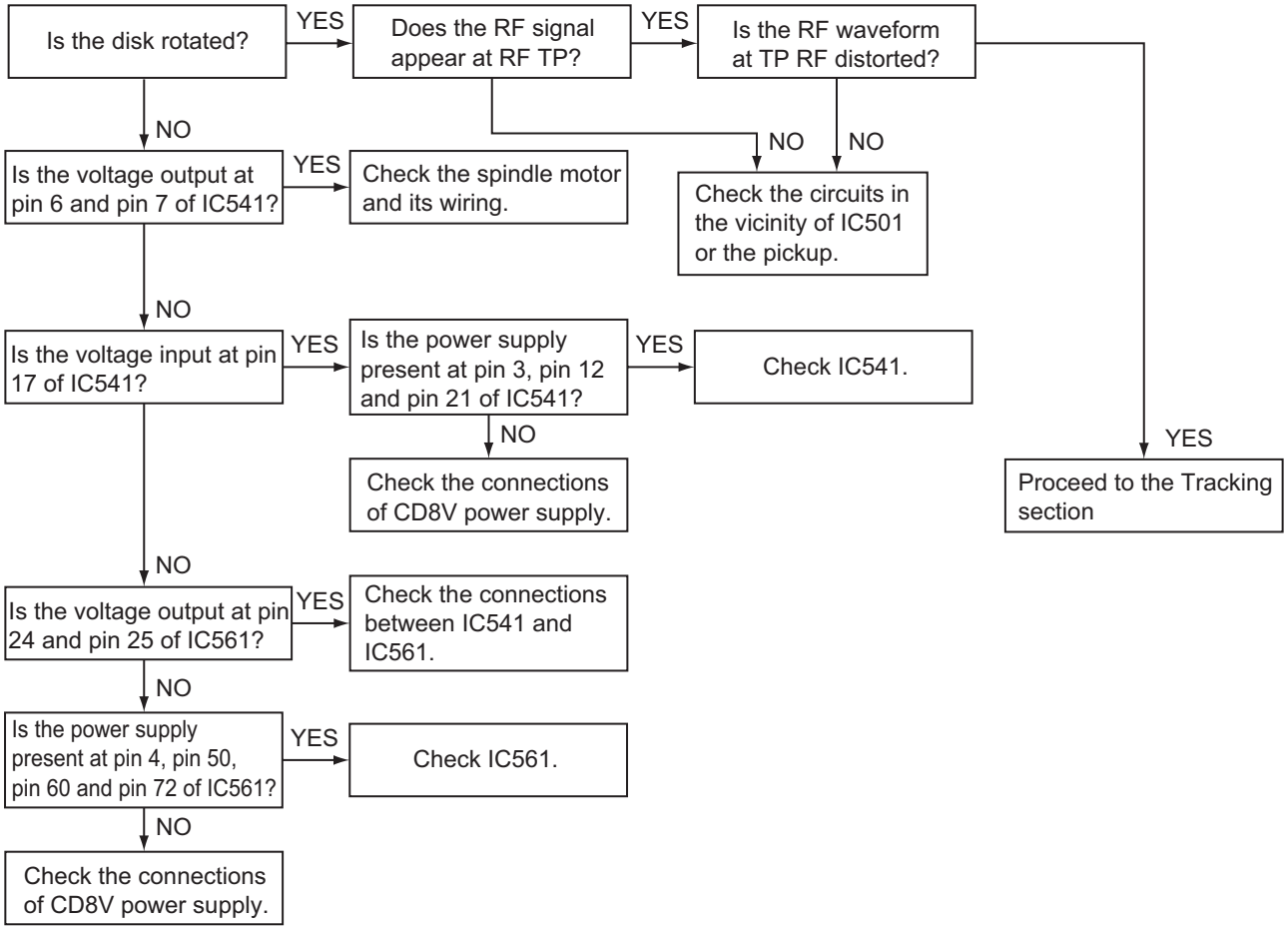
5.1.1 Feed section


Is 4V present at both sides of the feed motor?
YES
Check the feed motor.
NO
Is the voltage output at pin 4 and pin 5 of IC541?
YES
Check the connections between the feed motor and IC541.
NO
Is the voltage input at pin 28 of IC541?
YES
Is the power supply present at pin 3, pin 12 and pin 21 of IC541?
YES
Check IC541.
NO
Check the connections of CD8V power supply.
NO
Is the voltage output at pin 21 and pin 22 of IC561?
YES
Check the connections between IC541 and IC561.
NO
Is the power supply present at pin 4, pin 50, pin 60 and pin 72 of IC561?
YES
Check IC561.
NO
Check the connections of CD8V power supply.

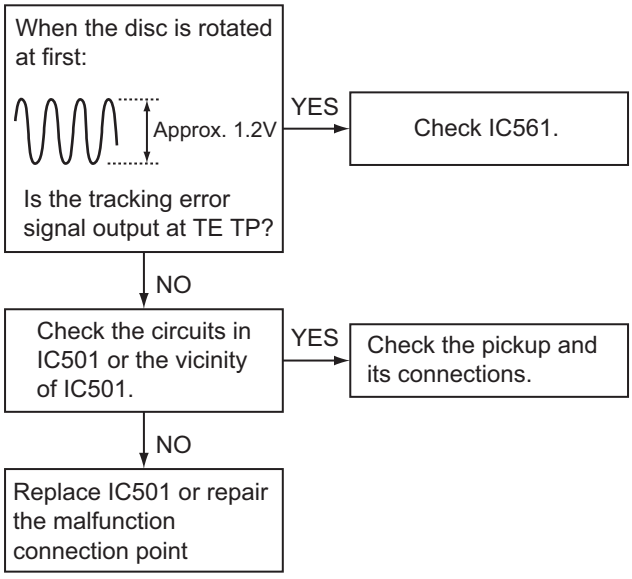
5.1.2 Focus section


When the lens is moving:
4V
Does the S-search waveform appear at IC541 pins 8 and 9?
YES
Check the pickup and its connections.
NO
Is the voltage input at pin 15 of IC541?
YES
Is the power supply present at pin 3, pin 12 and pin 21 of IC541?
YES
Check IC541.
NO
Check the connections of CD8V power supply.
NO
Is the voltage output at pin 28 of IC561?
YES
Check the connections between IC541 and IC561.
NO
Is the power supply present at pin 4, pin 50, pin 60 and pin 72 of IC561?
YES
Check IC561.
NO
Check the connections of CD8V power supply.

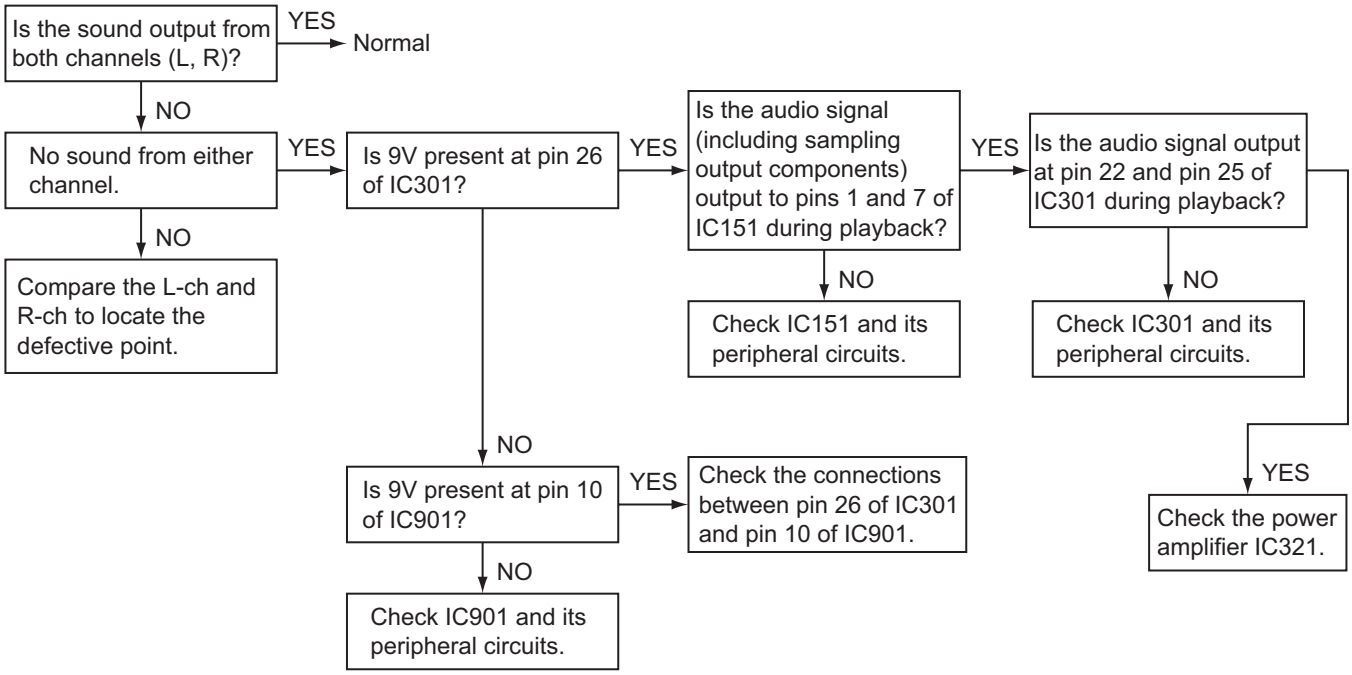
5.1.3 Spindle section


Is the disk rotated?
YES
Does the RF signal appear at RF TP?
YES
Is the RF waveform at TP RF distorted?
NO
NO
NO
Is the voltage output at pin 6 and pin 7 of IC541?
YES
Check the spindle motor and its wiring.
Check the circuits in the vicinity of IC501 or the pickup.
NO
Is the voltage input at pin 17 of IC541?
YES
Is the power supply present at pin 3, pin 12 and pin 21 of IC541?
YES
Check IC541.
NO
Check the connections of CD8V power supply.
YES
Proceed to the Tracking section
NO
Is the voltage output at pin 24 and pin 25 of IC561?
YES
Check the connections between IC541 and IC561.
NO
Is the power supply present at pin 4, pin 50, pin 60 and pin 72 of IC561?
YES
Check IC561.
NO
Check the connections of CD8V power supply.

5.1.4 Tracking section

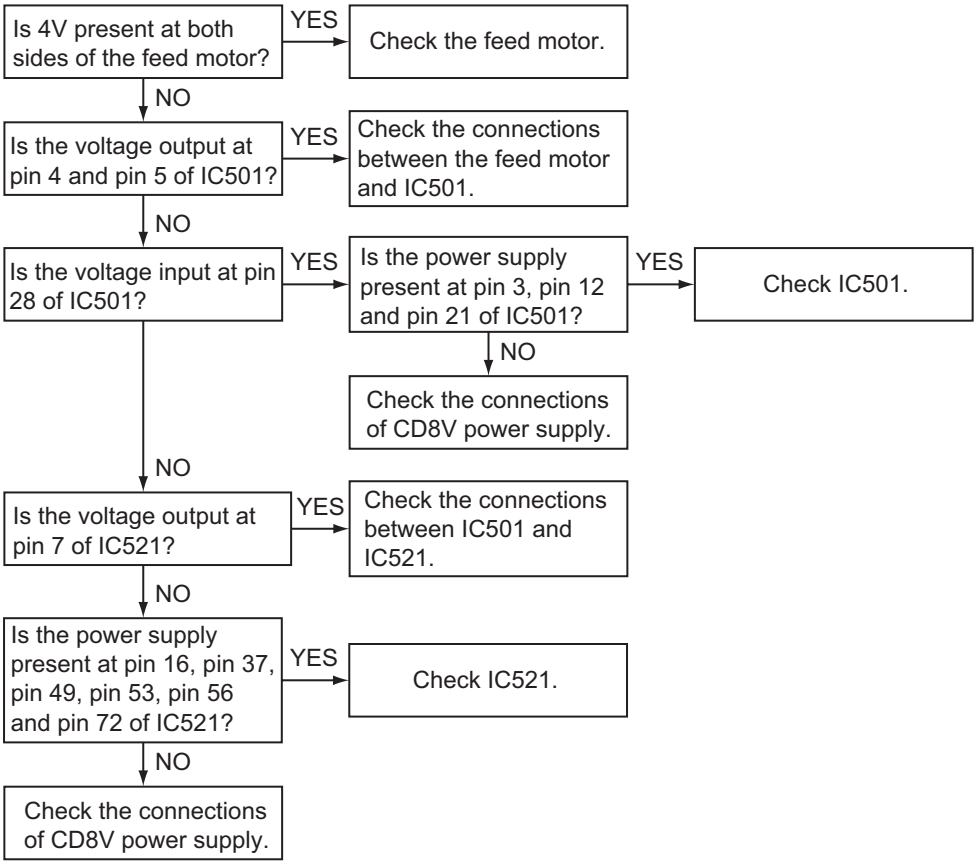

When the disc is rotated at first:
Approx. 1.2V
Is the tracking error signal output at TE TP?
YES
Check IC561.
NO
Check the circuits in IC501 or the vicinity of IC501.
YES
Check the pickup and its connections.
NO
Replace IC501 or repair the malfunction connection point

5.1.5 Signal processing section

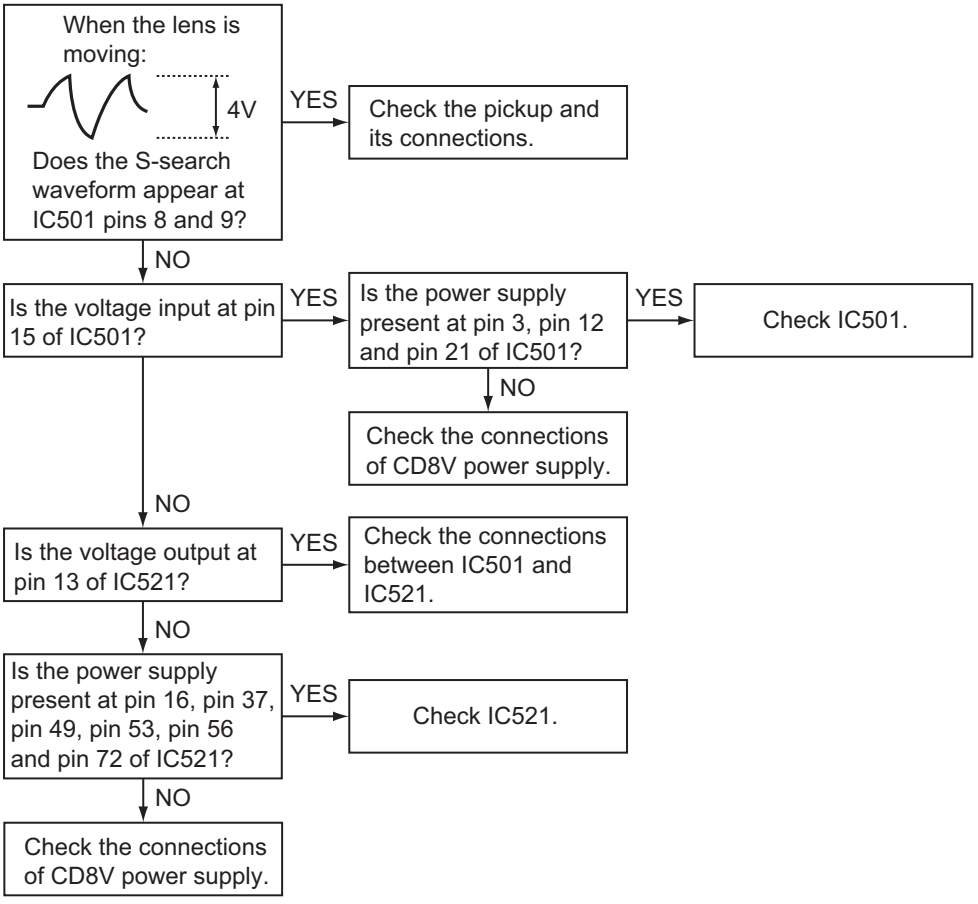

Is the sound output from both channels (L, R)?
YES
Normal
NO
No sound from either channel.
YES
Is 9V present at pin 26 of IC301?
YES
Is the audio signal (including sampling output components) output to pins 1 and 7 of IC151 during playback?
YES
Is the audio signal output at pin 22 and pin 25 of IC301 during playback?
NO
Compare the L-ch and R-ch to locate the defective point.
NO
Check IC151 and its peripheral circuits.
NO
Check IC301 and its peripheral circuits.
NO
Is 9V present at pin 10 of IC901?
YES
Check the connections between pin 26 of IC301 and pin 10 of IC901.
YES
Check the power amplifier IC321.
NO
Check IC901 and its peripheral circuits.

5.2 Trouble shooting (For KD-G161 and KD-G162)

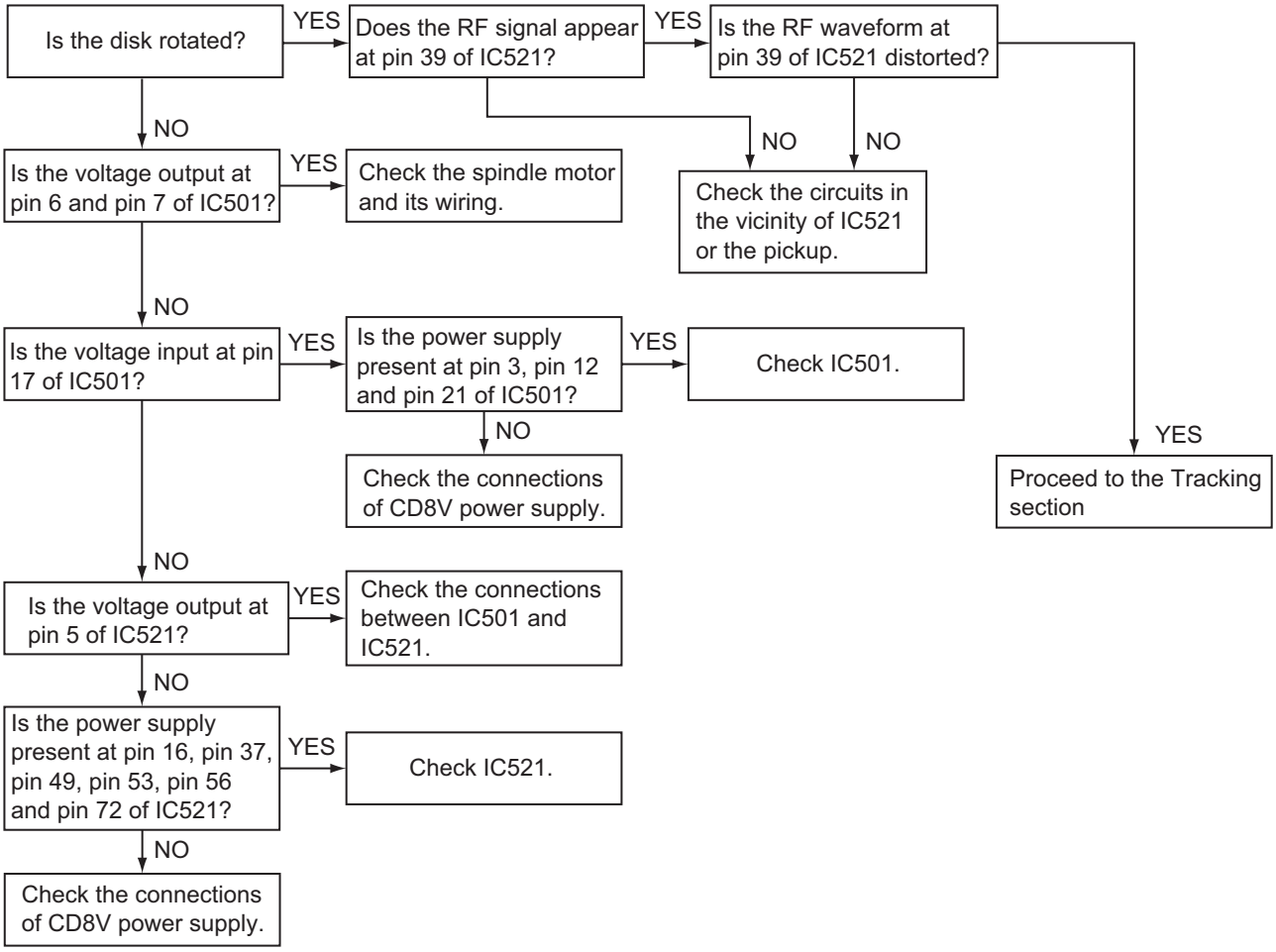
5.2.1 Feed section


Is 4V present at both sides of the feed motor?
YES
Check the feed motor.
NO
Is the voltage output at pin 4 and pin 5 of IC501?
YES
Check the connections between the feed motor and IC501.
NO
Is the voltage input at pin 28 of IC501?
YES
Is the power supply present at pin 3, pin 12 and pin 21 of IC501?
YES
Check IC501.
NO
Check the connections of CD8V power supply.
NO
Is the voltage output at pin 7 of IC521?
YES
Check the connections between IC501 and IC521.
NO
Is the power supply present at pin 16, pin 37, pin 49, pin 53, pin 56 and pin 72 of IC521?
YES
Check IC521.
NO
Check the connections of CD8V power supply.

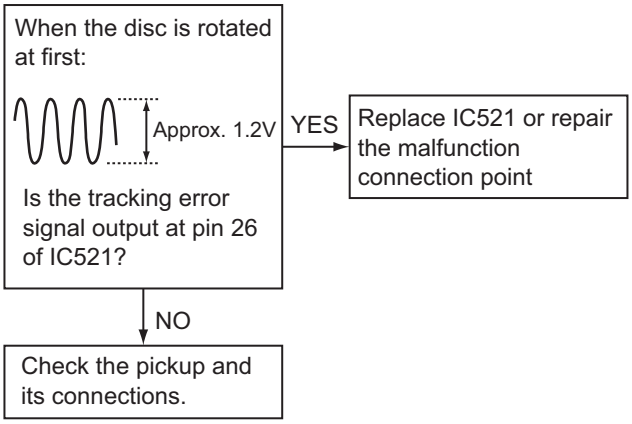
5.2.2 Focus section


When the lens is moving:
4V
Does the S-search waveform appear at IC501 pins 8 and 9?
YES
Check the pickup and its connections.
NO
Is the voltage input at pin 15 of IC501?
YES
Is the power supply present at pin 3, pin 12 and pin 21 of IC501?
YES
Check IC501.
NO
Check the connections of CD8V power supply.
NO
Is the voltage output at pin 13 of IC521?
YES
Check the connections between IC501 and IC521.
NO
Is the power supply present at pin 16, pin 37, pin 49, pin 53, pin 56 and pin 72 of IC521?
YES
Check IC521.
NO
Check the connections of CD8V power supply.

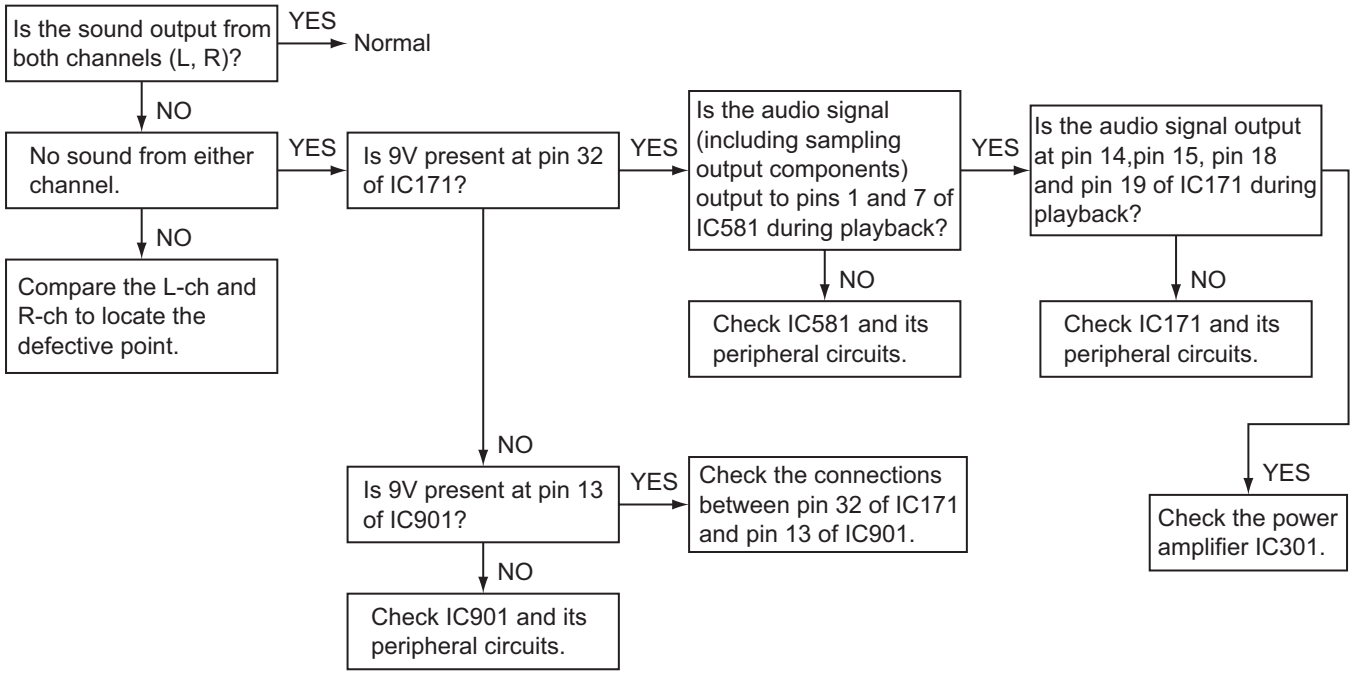
5.2.3 Spindle section


Is the disk rotated?
YES
Does the RF signal appear at pin 39 of IC521?
YES
Is the RF waveform at pin 39 of IC521 distorted?
NO
NO
NO
Is the voltage output at pin 6 and pin 7 of IC501?
YES
Check the spindle motor and its wiring.
Check the circuits in the vicinity of IC521 or the pickup.
NO
Is the voltage input at pin 17 of IC501?
YES
Is the power supply present at pin 3, pin 12 and pin 21 of IC501?
YES
Check IC501.
NO
Check the connections of CD8V power supply.
YES
Proceed to the Tracking section
NO
Is the voltage output at pin 5 of IC521?
YES
Check the connections between IC501 and IC521.
NO
Is the power supply present at pin 16, pin 37, pin 49, pin 53, pin 56 and pin 72 of IC521?
YES
Check IC521.
NO
Check the connections of CD8V power supply.

5.2.4 Tracking section


When the disc is rotated at first:
Approx. 1.2V
Is the tracking error signal output at pin 26 of IC521?
YES
Replace IC521 or repair the malfunction connection point
NO
Check the pickup and its connections.

5.2.5 Signal processing section

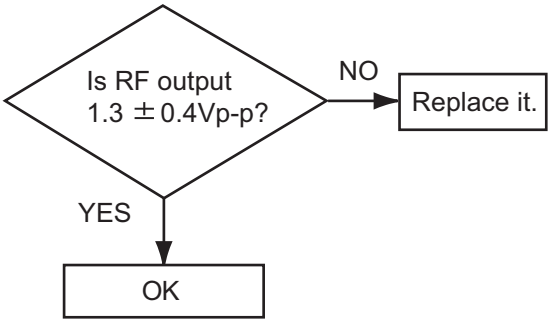

Is the sound output from both channels (L, R)?
YES
Normal
NO
No sound from either channel.
YES
Is 9V present at pin 32 of IC171?
YES
Is the audio signal (including sampling output components) output to pins 1 and 7 of IC581 during playback?
YES
Is the audio signal output at pin 14,pin 15, pin 18 and pin 19 of IC171 during playback?
NO
Compare the L-ch and R-ch to locate the defective point.
NO
Check IC581 and its peripheral circuits.
NO
Check IC171 and its peripheral circuits.
NO
Is 9V present at pin 13 of IC901?
YES
Check the connections between pin 32 of IC171 and pin 13 of IC901.
YES
Check the power amplifier IC301.
NO
Check IC901 and its peripheral circuits.

5.3 Maintenance of laser pickup

(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

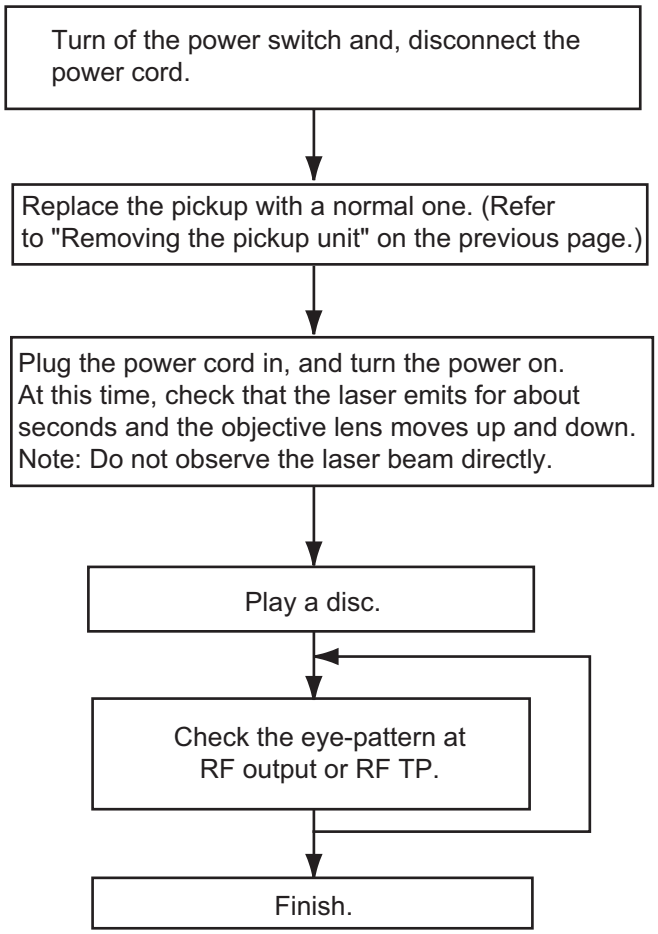
(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

- The level of RF output (EFM output: amplitude of eye pattern) will be low.

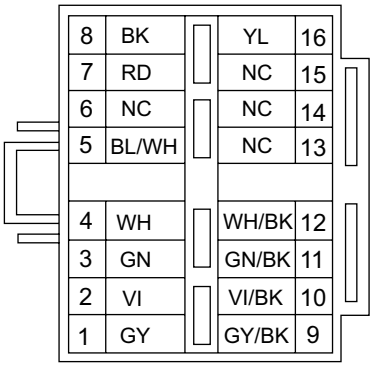


(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced. If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

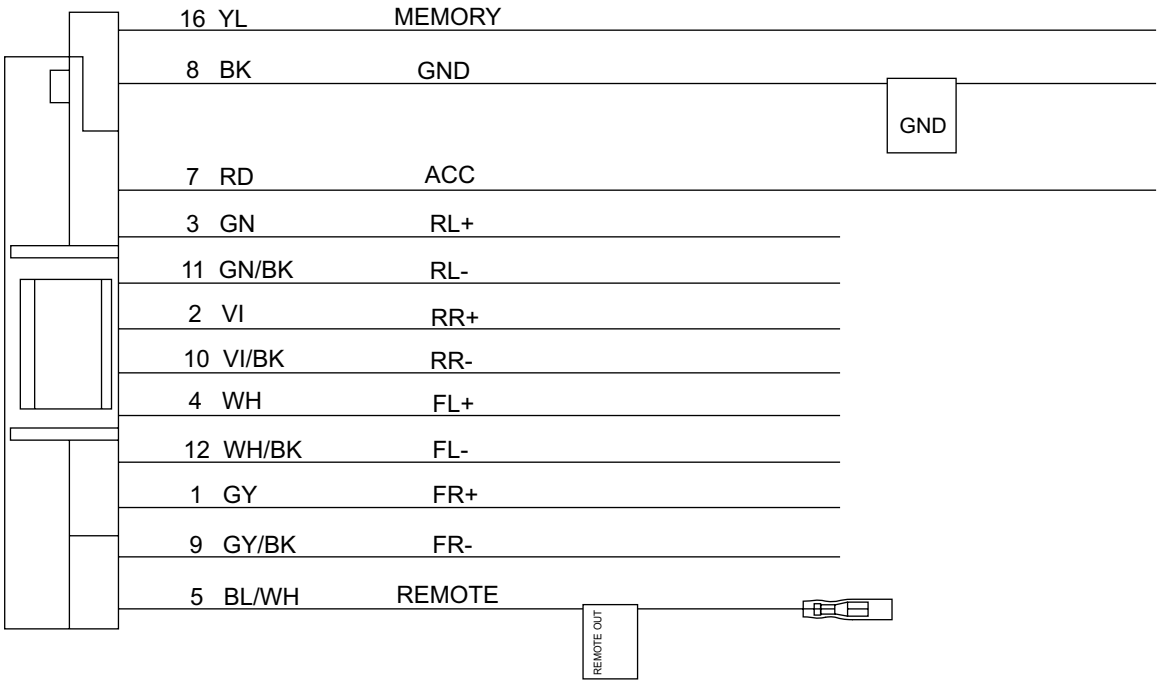
5.4 Replacement of laser pickup


Turn of the power switch and, disconnect the power cord.
Replace the pickup with a normal one. (Refer to "Removing the pickup unit" on the previous page.)
Plug the power cord in, and turn the power on.
At this time, check that the laser emits for about seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at RF output or RF TP.
Finish.

5.5 16 PIN CORD DIAGRAM (For KD-G120 and KD-G120R)

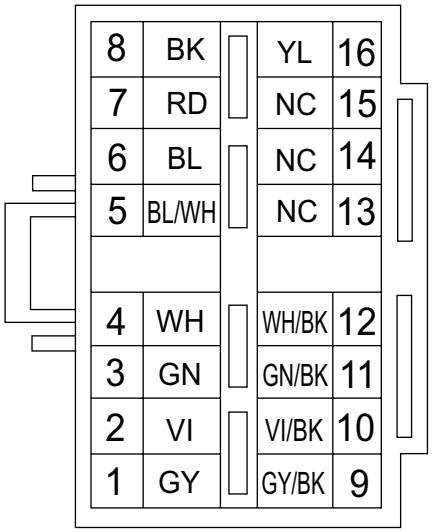


BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow

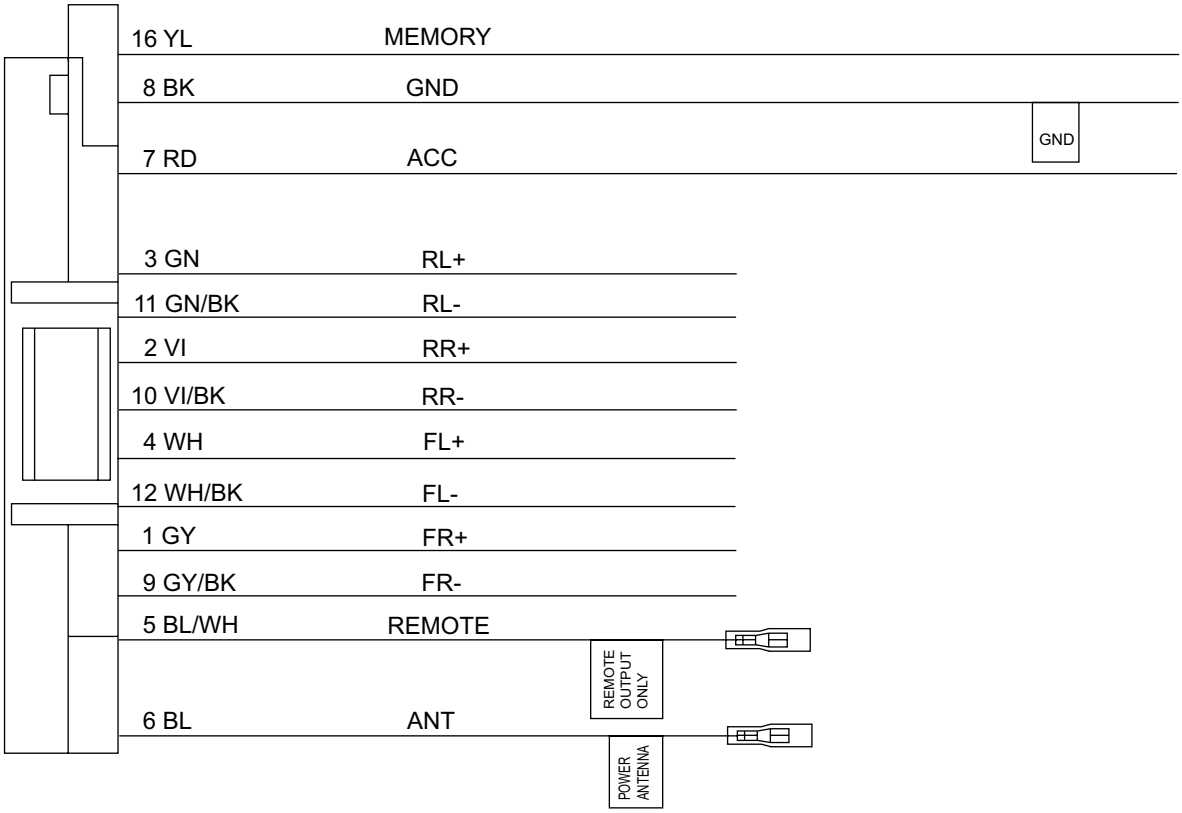


RR	Rear Right	REMOTE	Remote out
FR	Front Right	ACC	ACC Line
FL	Front Left	MEMORY	Memory Backup Battery+
RL	Rear Left	GND	Ground

5.6 16 PIN CORD DIAGRAM (For KD-G123, KD-G124, KD-G125 and KD-G126)

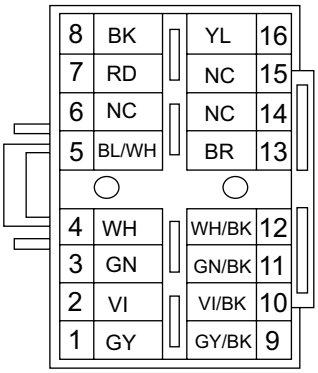


BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow

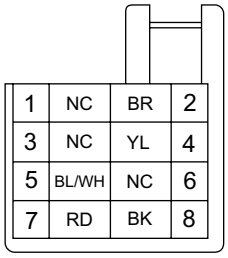


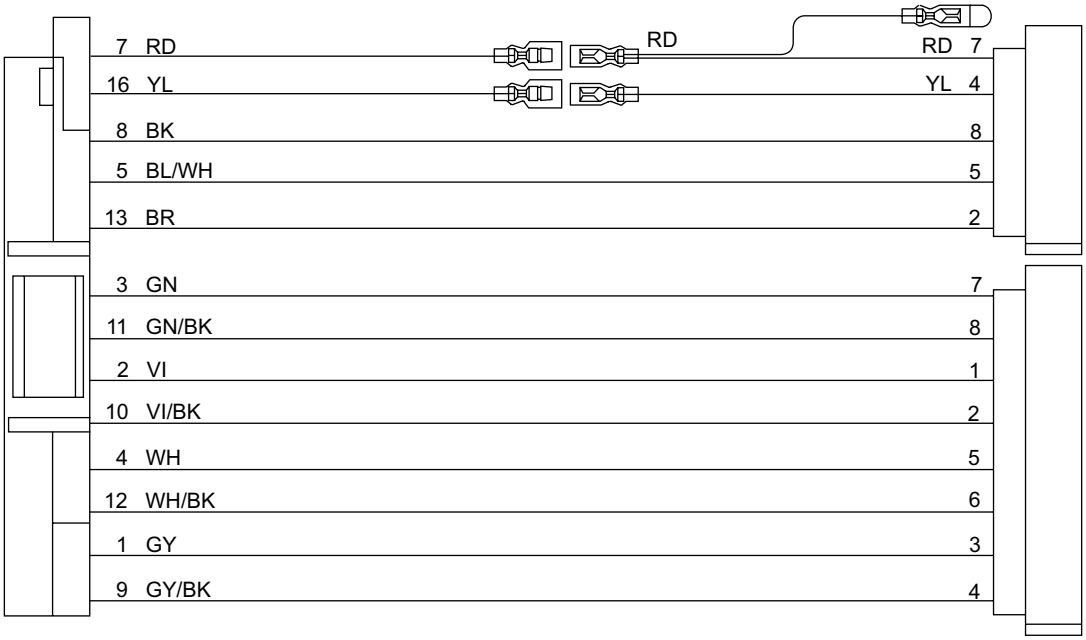
RR	Rear Right	ANT	Auto Antenna
FR	Front Right	ACC	ACC Line
FL	Front Left	GND	Ground
RL	Rear Left	MEMORY	Memory Backup Battery+
REMOTE	Remote		

5.7 16 PIN CORD DIAGRAM (For KD-G161 and KD-G162)

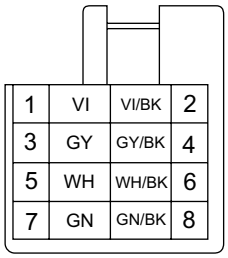


BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow
BR	Brown		





RR	Rear Right	ACC	ACC Line
FR	Front Right	TEL	Telephone Muting
FL	Front Left	GND	Ground
RL	Rear Left	MEMORY	Memory Backup Battery+
REMOTE	Remote	ANT	Auto Antenna
ILL	Illuminations Control		



JVC
Victor Company of Japan, Limited
Mobile Entertainment Business Group Mobile Entertainment Category 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MA233)

Printed in Japan
VPT